

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: LUMARK

Report Number: P622556

Luminaire Tested: **PRV-M-C275-D-U-T4-BZ-7050**

Issue Date: 9/29/2022

Test Information

Test Method: LM-79-08
Report Number: P622556
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2204-605-5)
Test Lab: INNOVATION CENTER
Issue Date: 9/29/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: PRV-M-C275-D-U-T4-BZ-7050
Description: PREVAIL M AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 5000K LEDS AND TYPE IV OPTICS, BRONZE PAINTED FINISH
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 81139 lumens
Efficiency: N/A
Efficacy: 138.1 lumens/watt
Luminous Opening: Rectangular (W 1.83' x L: 1.75' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B5 - U0 - G5

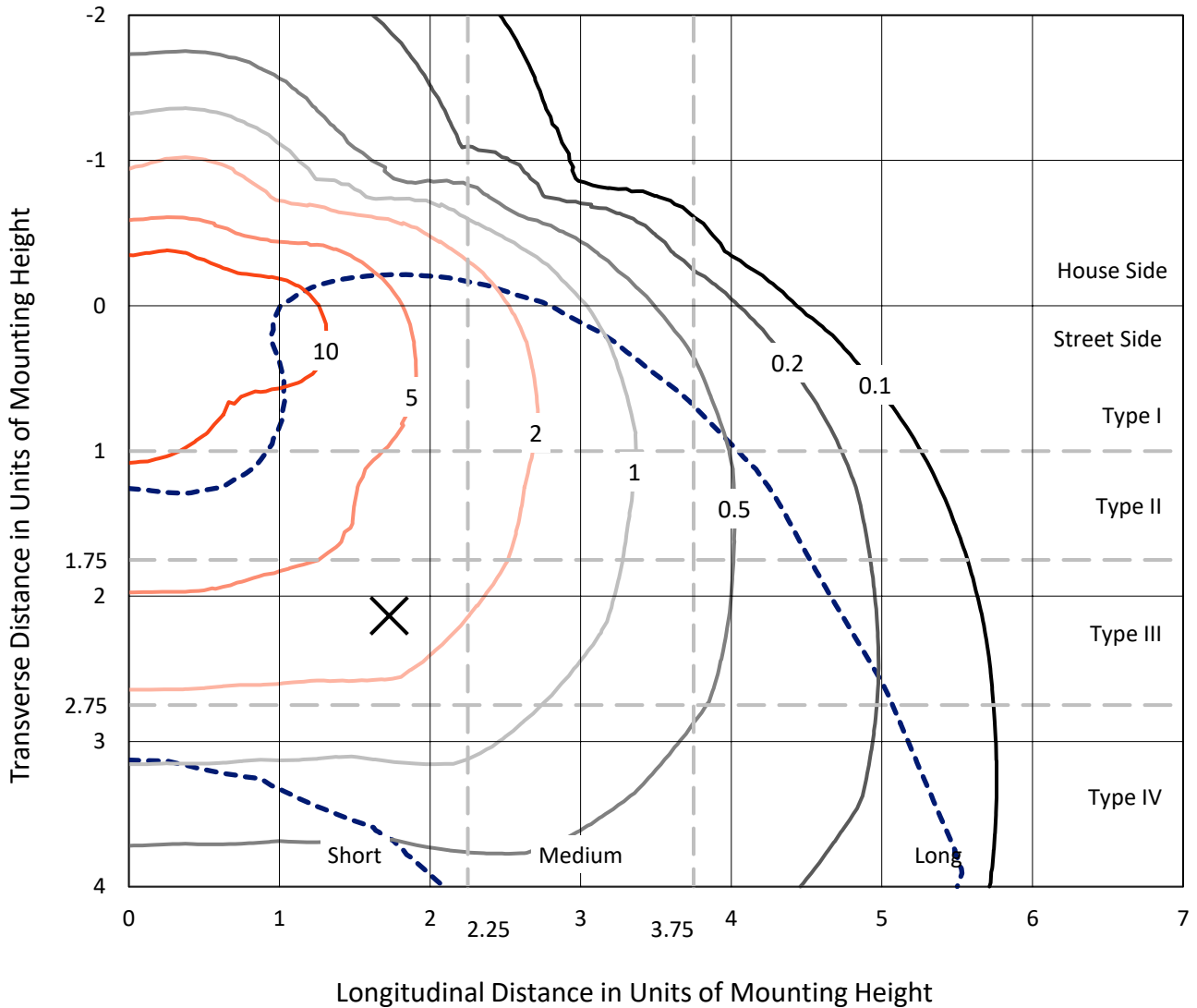
Input Watts (W): 587.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

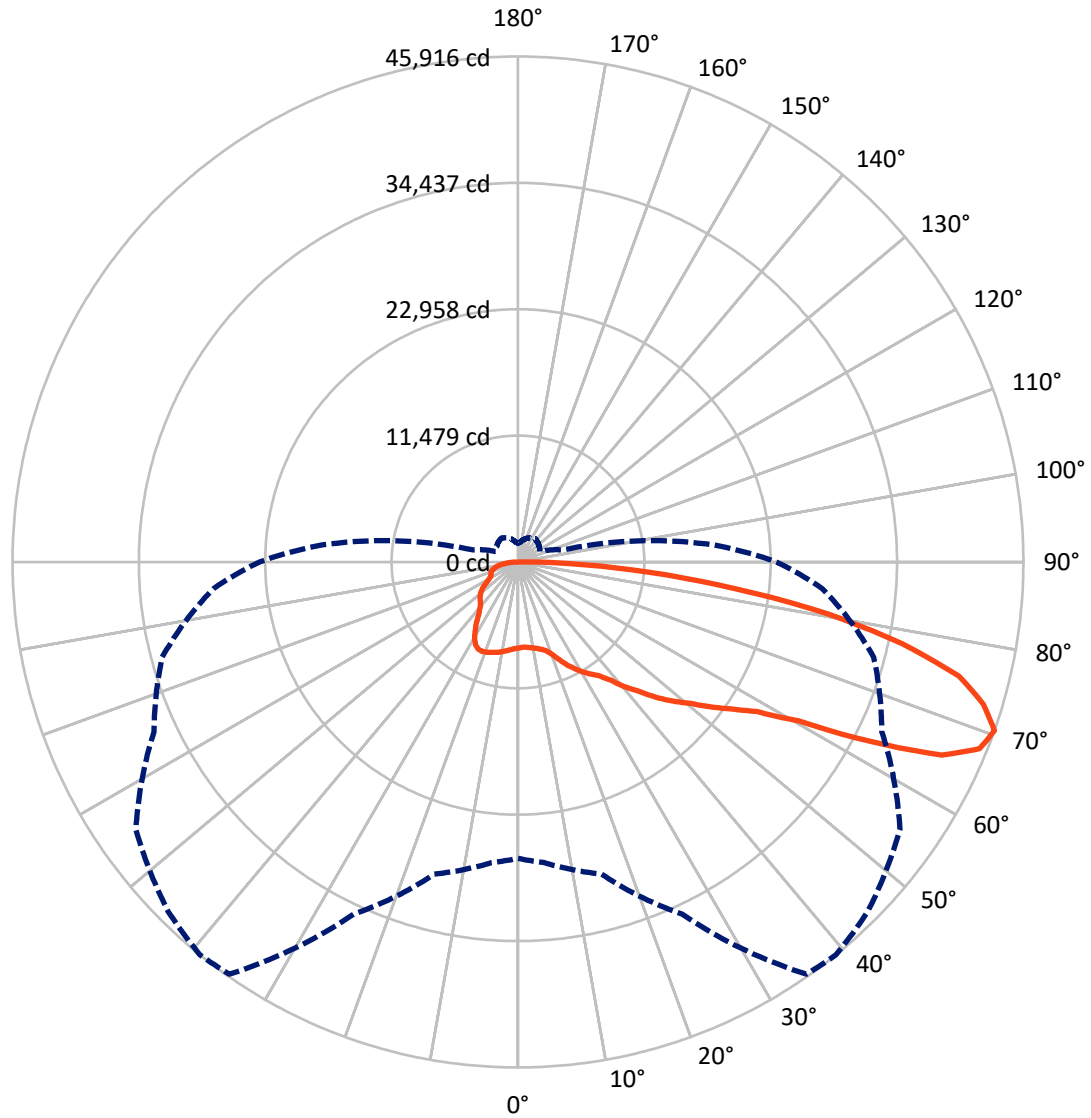
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 14.1 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 39-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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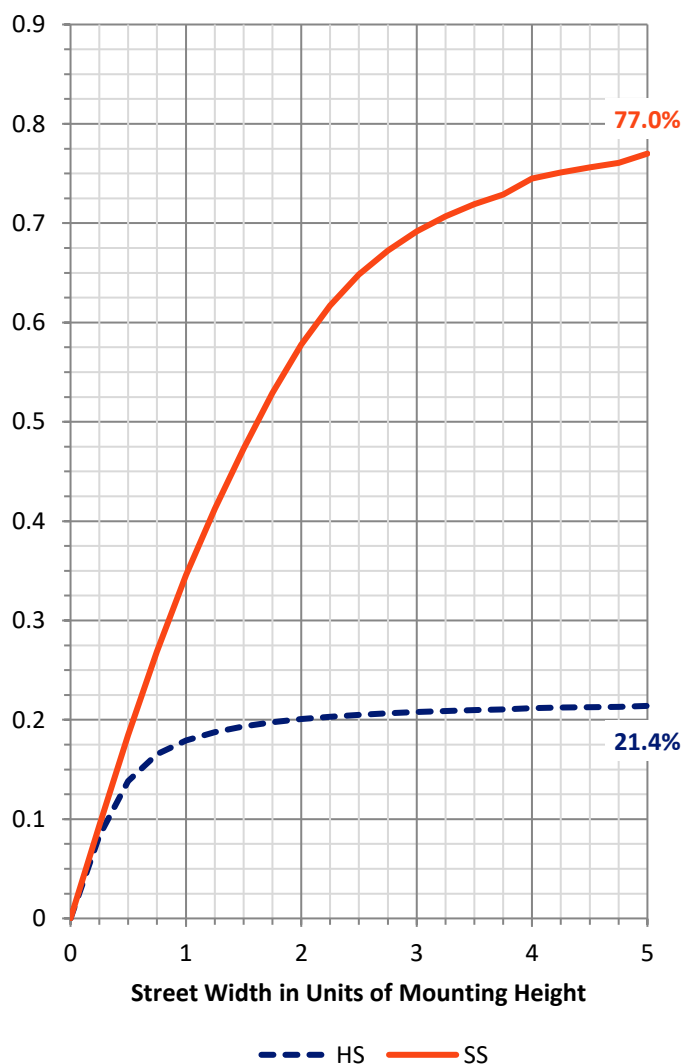
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	17620.6	0.0	17620.6
	% Fixture	21.7	0.0	21.7
Street Side	Lumens	63518.4	0.0	63518.4
	% Fixture	78.3	0.0	78.3
Total	Lumens	81139.0	0.0	81139.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	759.8	0.9
10°-20°	2403.0	3.0
20°-30°	4487.5	5.5
30°-40°	7014.0	8.6
40°-50°	10743.7	13.2
50°-60°	15425.6	19.0
60°-70°	20362.7	25.1
70°-80°	16217.5	20.0
80°-90°	3725.1	4.6
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	81139.0	100.0
0°-180°	81139.0	100.0

Coefficient of Utilization

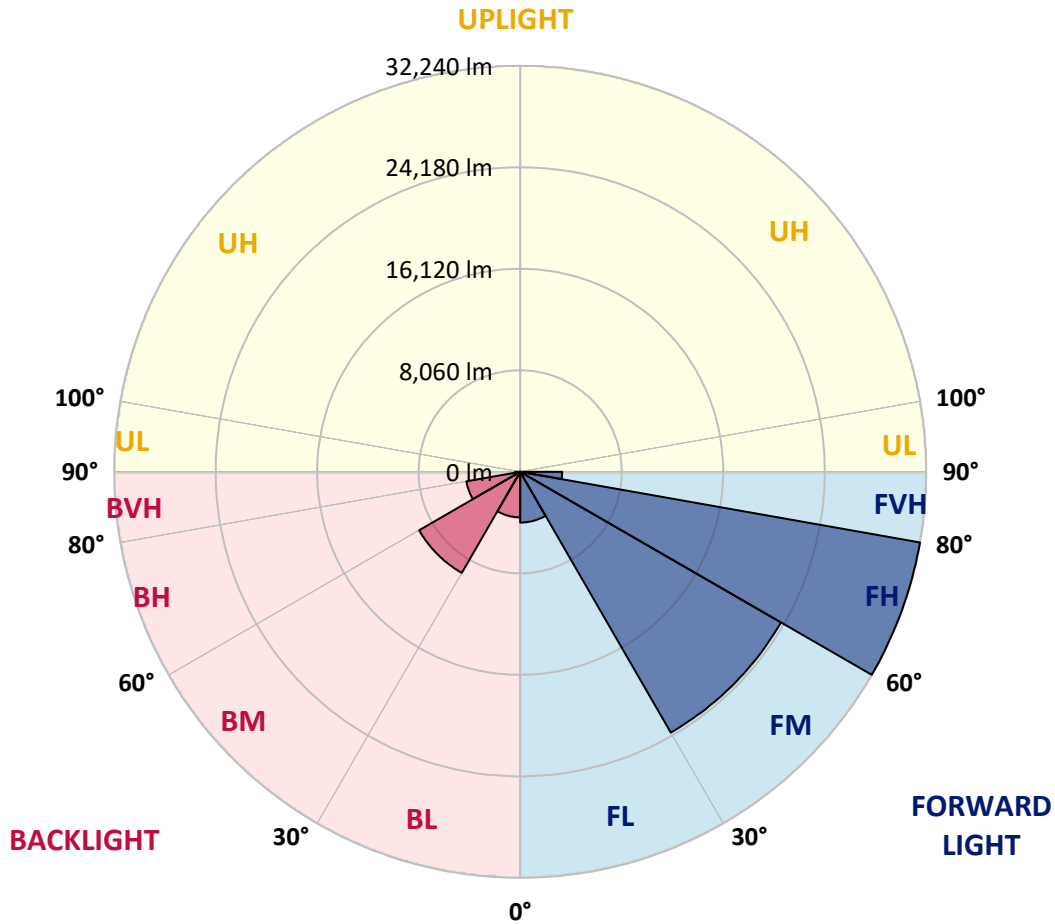


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4030.7	5.0			
FM (30°-60°)	23911.9	29.5			
FH (60°-80°)	32240.4	39.7			G5
FVH (80°-90°)	3335.4	4.1			G5
BL (0°-30°)	3619.7	4.5	B4/5000		
BM (30°-60°)	9271.4	11.4	B5		
BH (60°-80°)	4339.8	5.3	B4/5000		G4/5000
BVH (80°-90°)	389.6	0.5			G3/500
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G5
 Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	39°	45°	55°	65°	75°	85°
0°	7822.8	7822.8	7822.8	7822.8	7822.8	7822.8	7822.8	7822.8	7822.8	7822.8	7822.8
2.5°	7789.1	7785.9	7822.8	7787.5	7782.7	7757.0	7765.0	7793.9	7834.0	7826.0	7851.6
5°	7813.1	7809.9	7846.8	7797.1	7798.7	7784.3	7768.2	7803.5	7842.0	7843.6	7877.3
7.5°	7859.7	7872.5	7904.6	7861.3	7878.9	7854.8	7834.0	7877.3	7903.0	7891.7	7944.7
10°	7898.2	7906.2	7947.9	7927.0	7962.3	7954.3	7952.7	8004.1	8039.3	8005.7	8058.6
12.5°	7946.3	7963.9	8013.7	8010.5	8079.5	8076.2	8093.9	8177.3	8219.0	8188.6	8231.9
15°	8061.8	8079.5	8130.8	8143.6	8235.1	8252.7	8291.2	8398.7	8470.9	8440.4	8498.2
17.5°	8379.5	8369.8	8418.0	8414.8	8496.6	8512.6	8572.0	8713.2	8811.0	8823.9	8891.3
20°	8997.1	9016.4	9043.7	9008.4	9003.6	8989.1	9010.0	9106.2	9241.0	9314.8	9428.7
22.5°	9889.2	9837.8	9855.5	9731.9	9659.7	9651.7	9614.8	9659.7	9794.5	9895.6	10060.8
25°	10660.8	10667.3	10649.6	10494.0	10384.9	10365.6	10336.8	10372.1	10463.5	10595.1	10800.4
27.5°	11301.0	11280.1	11281.7	11105.2	10992.9	10957.6	10944.8	11142.1	11323.4	11413.3	11718.1
30°	11872.1	11820.8	11798.3	11647.5	11596.2	11572.1	11565.7	11888.2	12226.7	12473.7	12870.0
32.5°	12881.2	12831.5	12602.1	12233.1	12146.5	12140.0	12156.1	12586.0	13174.8	13628.9	14265.8
35°	13928.9	13903.2	13779.7	13320.8	12804.2	12703.2	12775.4	13338.5	14135.8	15068.0	15866.9
37.5°	15196.3	15149.8	14992.6	14426.2	13848.7	13582.3	13468.4	14065.2	15156.2	16884.1	17864.3
40°	16757.3	16606.5	16349.8	15599.0	15114.5	14869.0	14429.4	14938.0	16415.6	19041.9	19956.4
42.5°	18005.5	17963.8	17623.7	16943.4	16332.2	16035.4	15709.7	15960.0	17942.9	21251.1	22032.4
45°	18998.6	19038.7	18846.2	18249.4	17684.6	17509.8	17312.4	17694.3	19744.6	23630.3	23864.6
47.5°	19961.2	19991.7	19755.8	19333.9	18992.2	18875.1	18948.9	19779.9	21836.7	25639.0	25401.5
50°	21406.7	21288.0	20503.5	20286.9	20097.6	20153.7	20619.0	21637.7	24246.4	27581.8	26832.6
52.5°	23830.9	23381.6	21968.2	21520.6	21626.5	21830.3	22285.9	23537.3	26880.7	29107.5	28010.2
55°	27246.5	26542.2	24888.1	23384.9	23266.1	23571.0	24100.4	25507.4	29158.9	30511.3	28976.0
57.5°	29681.9	29654.6	28728.9	27352.4	25587.6	25629.3	26109.0	27387.7	31010.3	31911.9	29731.6
60°	32013.0	32170.2	32621.0	31788.4	30028.4	29293.6	28748.2	29285.6	32657.9	33026.9	30267.5
62.5°	33888.5	34007.2	35725.4	35983.7	36700.9	35905.1	33460.1	31732.2	34159.6	33723.2	30434.3
65°	33827.5	33806.6	36198.7	38030.9	41695.2	42298.4	40732.6	35013.1	35998.2	34081.0	30227.4
67.5°	31104.9	31032.7	33365.5	37799.8	44850.9	45239.2	44329.5	40159.8	36604.6	34029.7	29499.0
70°	26922.4	27415.0	29348.2	35281.0	45710.8	45916.2	44924.7	42369.0	36466.6	33463.3	27748.7
72.5°	22494.4	22645.3	24902.6	30946.1	44167.5	44230.0	43546.6	41873.3	35549.0	32134.9	24280.1
75°	17699.1	17638.1	19752.6	24987.6	40283.4	41377.5	41085.5	40236.8	33535.5	28356.7	18563.8
77.5°	12428.8	12347.0	14501.6	19289.0	33249.9	35701.4	37328.2	36595.0	28619.8	21284.8	10243.7
80°	6250.5	6759.1	8960.2	13773.3	25916.5	28541.2	30270.7	29022.5	20691.2	11827.2	3075.5
82.5°	2258.9	2355.2	4304.4	8503.0	18170.8	19852.1	21437.2	19404.5	10227.7	2963.2	635.3
85°	1084.5	1129.5	1763.2	4386.3	11102.0	11974.8	12600.5	8302.5	1907.6	567.9	359.4
87.5°	511.8	537.5	802.2	1748.7	4598.0	4774.5	4482.5	2414.5	333.7	215.0	149.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	7822.8	7822.8	7822.8	7822.8	7822.8	7822.8	7822.8	7822.8	7822.8	7822.8	7822.8
2.5°	7842.0	7854.8	7875.7	7848.4	7834.0	7846.8	7877.3	7874.1	7893.4	7901.4	7885.3
5°	7874.1	7891.7	7923.8	7917.4	7915.8	7949.5	7989.6	8007.3	8031.3	8034.5	8012.1
7.5°	7941.5	7965.5	8004.1	8020.1	8044.2	8076.2	8132.4	8137.2	8169.3	8162.9	8148.4
10°	8068.2	8100.3	8161.3	8190.2	8196.6	8222.2	8264.0	8255.9	8265.6	8260.7	8238.3
12.5°	8243.1	8281.6	8368.2	8422.8	8405.1	8387.5	8366.6	8326.5	8307.3	8292.8	8272.0
15°	8514.2	8578.4	8681.1	8684.3	8615.3	8523.9	8456.5	8336.1	8260.7	8215.8	8180.5
17.5°	8949.0	9003.6	9149.5	9051.7	8888.0	8703.5	8501.4	8249.5	8047.4	7919.0	7866.1
20°	9475.2	9582.7	9720.7	9513.7	9237.8	8904.1	8539.9	8109.9	7683.2	7404.0	7346.3
22.5°	10158.7	10285.4	10282.2	9948.5	9557.1	9056.5	8547.9	7911.0	7235.6	6702.9	6622.7
25°	10964.1	11018.6	10832.5	10309.5	9738.3	9093.4	8429.2	7578.9	6595.4	5969.7	5924.8
27.5°	11763.0	11764.6	11321.8	10577.4	9751.2	8961.8	8132.4	7001.3	5929.6	5448.3	5395.4
30°	12834.7	12582.8	11774.2	10697.7	9610.0	8634.6	7550.0	6268.2	5369.7	4944.6	4893.2
32.5°	14007.5	13540.6	12164.1	10662.4	9305.2	8103.5	6788.0	5637.6	4920.5	4497.0	4455.3
35°	15449.8	14676.5	12565.2	10502.0	8743.7	7412.0	6066.0	5167.6	4561.1	4094.3	4015.7
37.5°	17230.6	16207.0	13080.2	10227.7	8126.0	6545.7	5462.8	4758.5	4217.8	3690.0	3577.7
40°	19197.5	17811.4	13746.0	9940.5	7426.5	5929.6	5029.6	4517.8	3999.6	3422.1	3314.6
42.5°	21040.9	19521.6	14601.1	9632.5	6788.0	5432.3	4845.1	4487.3	3938.7	3346.7	3219.9
45°	22792.9	21007.2	15473.9	9234.6	6120.6	5050.5	4768.1	4442.4	3885.7	3295.3	3162.2
47.5°	24183.8	22314.8	16268.0	8817.5	5531.8	4776.1	4652.6	4283.6	3760.6	3203.9	3083.5
50°	25462.5	23331.9	16882.5	8442.0	4997.5	4561.1	4436.0	4025.3	3523.1	3075.5	2971.2
52.5°	26455.6	24137.3	17227.4	8398.7	4479.3	4282.0	4132.8	3728.5	3304.9	2897.4	2796.4
55°	27148.6	24697.2	17272.3	8188.6	4031.7	3919.4	3749.3	3470.2	3189.4	2836.5	2749.8
57.5°	27594.6	24912.2	16973.9	6921.1	3569.7	3426.9	3354.7	3284.1	3080.3	2721.0	2655.2
60°	27825.7	24758.2	16261.6	5093.8	3115.6	2956.8	3077.1	3075.5	2911.9	2554.1	2499.6
62.5°	27739.0	24304.1	14836.9	3654.7	2701.7	2712.9	2846.1	2823.6	2589.4	2254.1	2191.5
65°	27110.1	23287.0	12414.4	2640.7	2509.2	2639.1	2743.4	2629.5	2331.1	2010.2	1970.1
67.5°	25756.1	21326.5	8673.1	2340.7	2459.5	2605.4	2708.1	2533.3	2225.2	1888.3	1851.4
70°	23487.5	17813.0	4195.3	2218.8	2368.0	2536.5	2634.3	2435.4	2130.6	1776.0	1719.9
72.5°	19245.7	12390.3	1739.1	2087.2	2255.7	2376.0	2522.0	2327.9	1981.4	1589.9	1545.0
75°	12069.4	6003.4	1443.9	1934.8	2082.4	2201.2	2347.1	2120.9	1721.5	1230.5	1192.0
77.5°	5255.8	1413.4	1360.5	1743.9	1931.6	2005.4	2129.0	2018.3	1577.1	1081.3	1052.4
80°	1017.2	887.2	1289.9	1448.7	1662.1	1763.2	1827.3	1755.1	1328.4	824.6	688.3
82.5°	580.8	758.9	1123.0	1079.7	1314.0	1302.7	1424.7	1435.9	1060.5	401.1	359.4
85°	394.7	638.5	754.0	667.4	768.5	789.3	1031.6	1004.3	722.0	240.7	194.1
87.5°	186.1	194.1	250.3	227.8	303.2	439.6	596.8	534.2	316.1	136.4	115.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)