

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: P622527

Luminaire Tested: **PRV-M-C275-D-U-T2-BZ-7030-HSS**

Issue Date: 9/29/2022

Test Information

Test Method: LM-79-08
Report Number: P622527
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2204-605-2)
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-T2-BZ-7030-HSS
Description: PREVAIL M AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 3000K LEDS AND TYPE II OPTICS WITH HOUSE SIDE SHIELD, BRONZE
PAINTED FINISH
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 72351 lumens
Efficiency: N/A
Efficacy: 123.2 lumens/watt
Luminous Opening: Rectangular (W 1.83' x L: 1.75' x H: 0')
IES Classification: Type II - Short
BUG Rating: B4 - U0 - G5

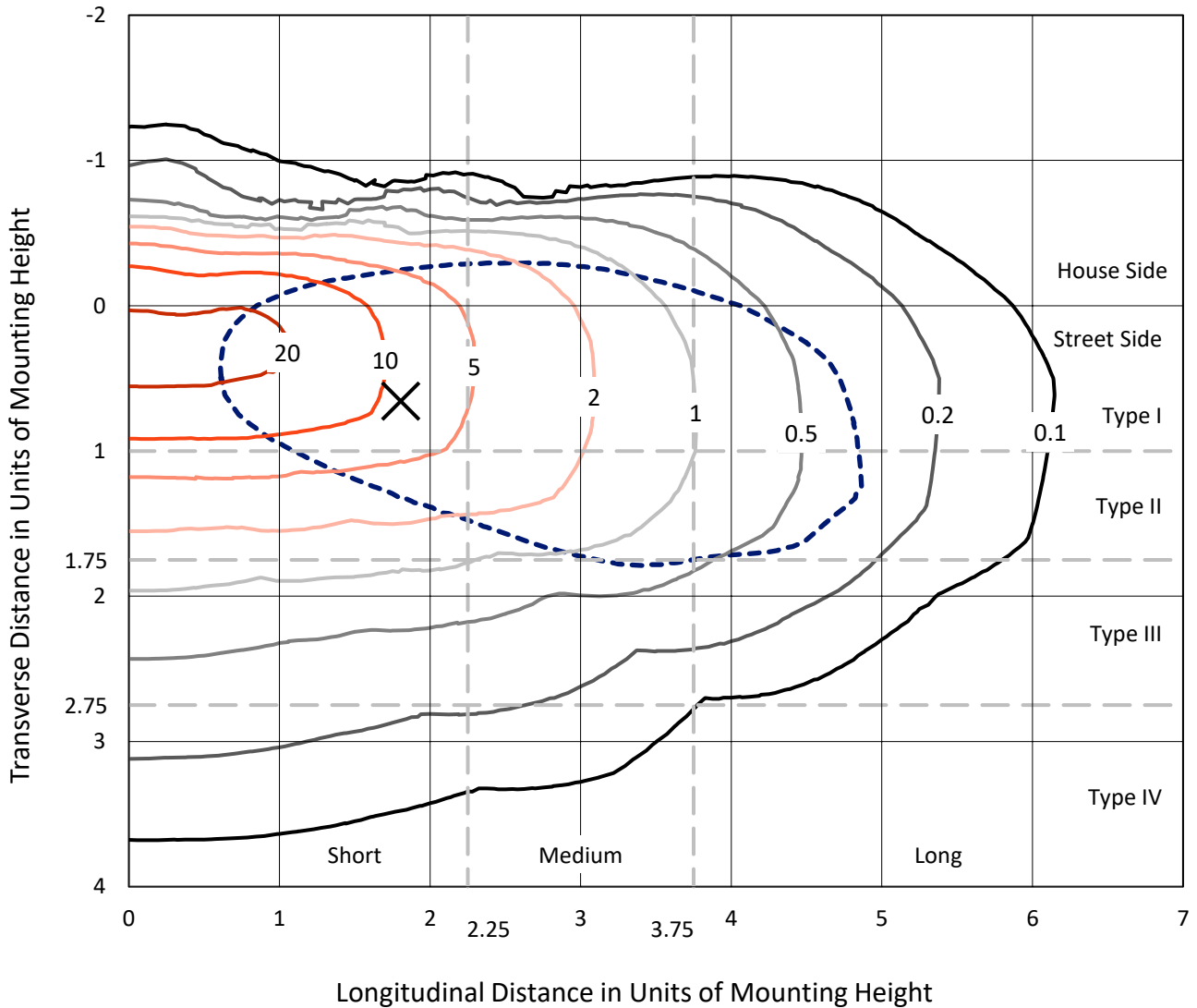
Input Watts (W): 587.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P622527
 CATALOG NUMBER: PRV-M-C275-D-U-T2-BZ-7030-HSS

Iso-Footcandle Lines of Horizontal Illumination

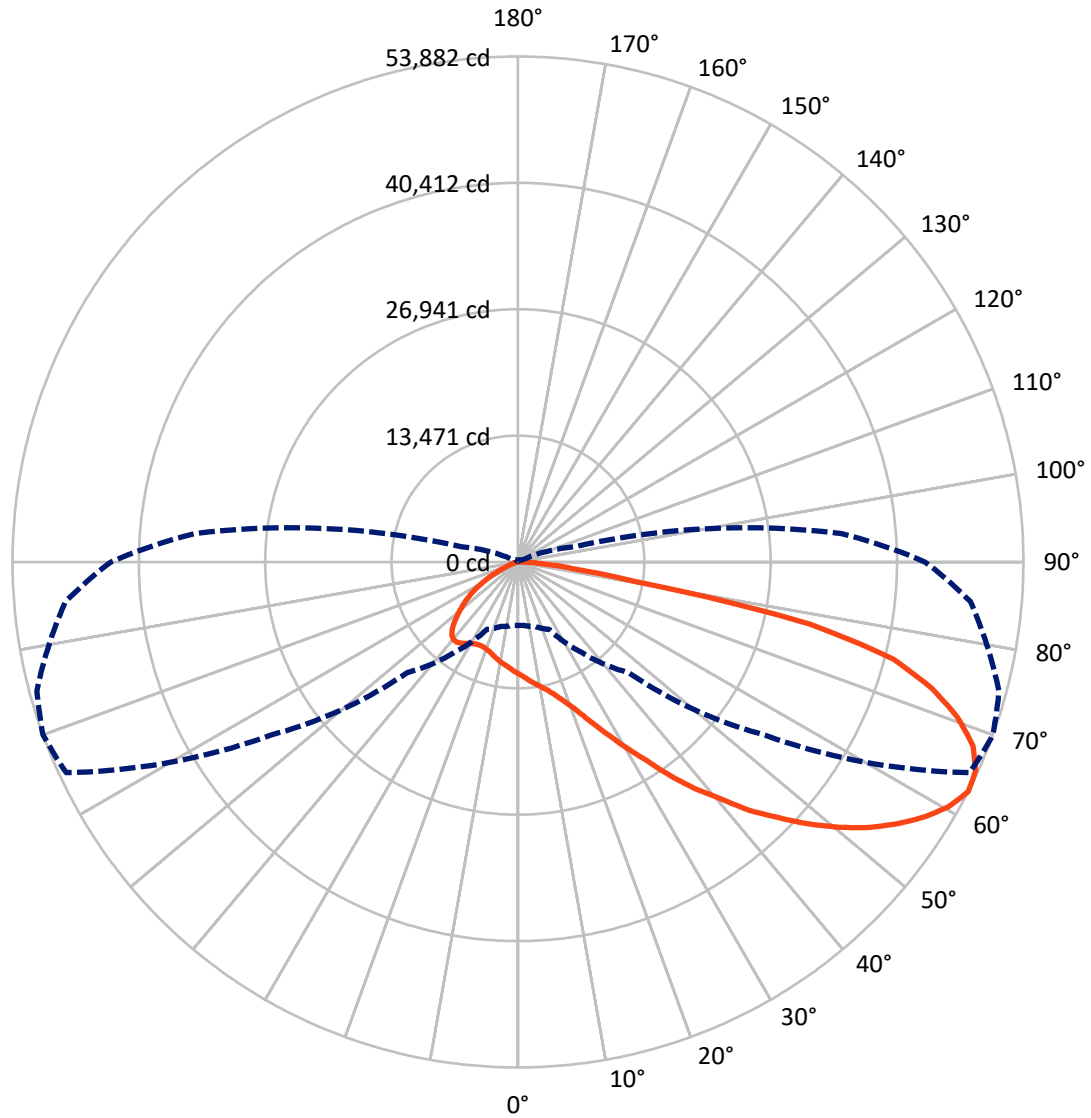
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 24.4 fc
 Type II - Short - N/A

REPORT NUMBER: P622527
CATALOG NUMBER: PRV-M-C275-D-U-T2-BZ-7030-HSS

Luminous Intensity Polar Plot



— Vertical Plane Through 70-Deg Lateral - - - Horizontal Cone Through 62.5-Deg Vertical

REPORT NUMBER: P622527

CATALOG NUMBER: PRV-M-C275-D-U-T2-BZ-7030-HSS

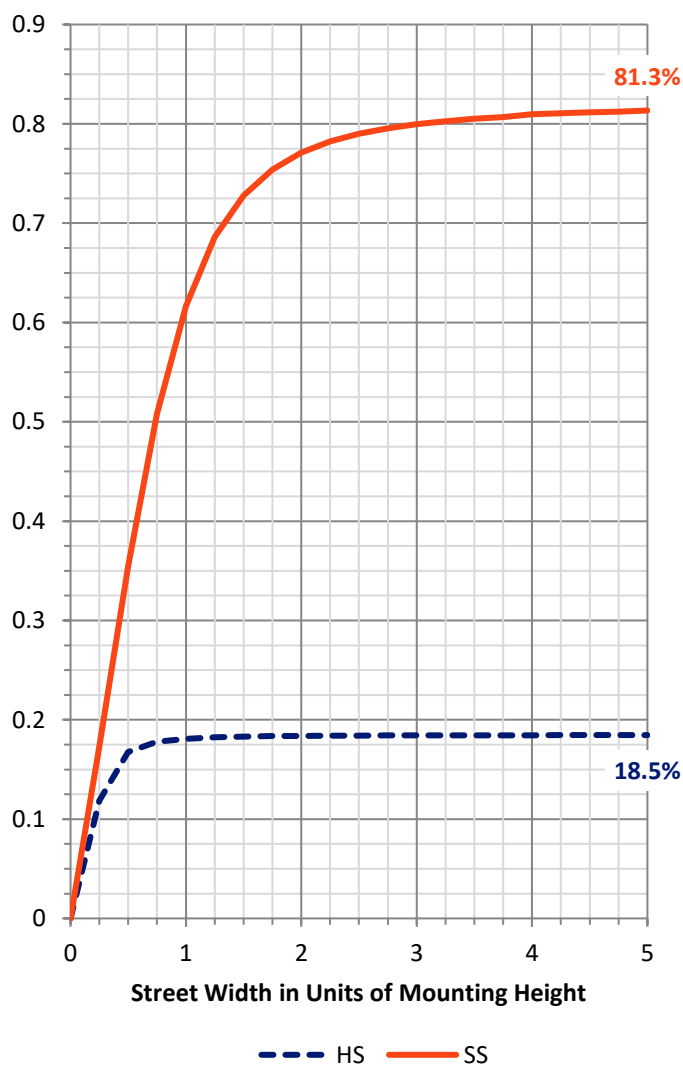
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	13512.3	0.0	13512.3
	% Fixture	18.7	0.0	18.7
Street Side	Lumens	58838.7	0.0	58838.7
	% Fixture	81.3	0.0	81.3
Total	Lumens	72351.0	0.0	72351.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1145.1	1.6
10°-20°	3470.7	4.8
20°-30°	6000.0	8.3
30°-40°	9079.0	12.5
40°-50°	12363.4	17.1
50°-60°	14597.9	20.2
60°-70°	14762.6	20.4
70°-80°	9701.2	13.4
80°-90°	1231.1	1.7
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°	72351.0	100.0
0°-180°	72351.0	100.0

Coefficient of Utilization



REPORT NUMBER: P622527

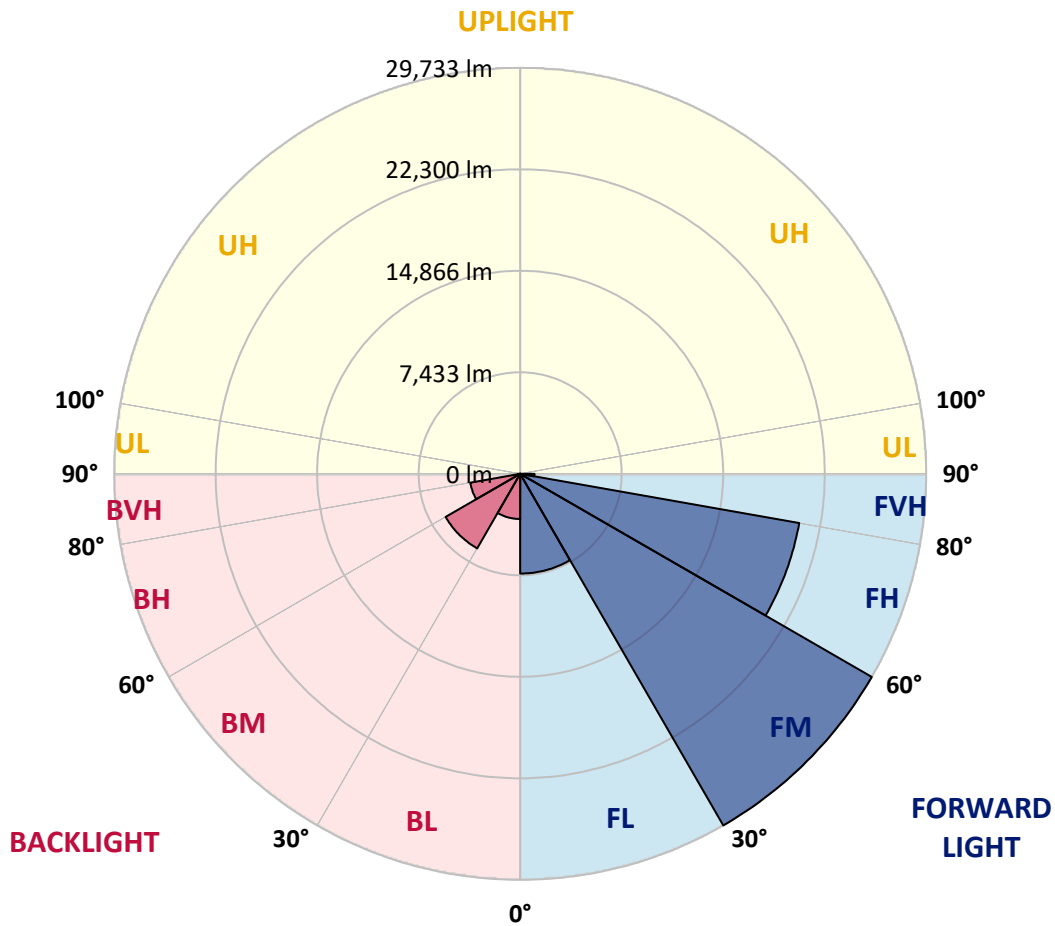
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	7303.4	10.1			
FM (30°-60°)	29732.7	41.1			
FH (60°-80°)	20751.6	28.7			G5
FVH (80°-90°)	1051.0	1.5			G5
BL (0°-30°)	3312.5	4.6	B4/5000		
BM (30°-60°)	6307.6	8.7	B4/8500		
BH (60°-80°)	3712.1	5.1	B4/5000		G4/5000
BVH (80°-90°)	180.1	0.2			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G5

Type II Short





REPORT NUMBER: P622527

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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	70°	75°	85°
0°	11928.3	11928.3	11928.3	11928.3	11928.3	11928.3	11928.3	11928.3	11928.3	11928.3	11928.3
2.5°	12800.7	12796.1	12828.6	12802.3	12700.2	12545.5	12489.8	12362.9	12265.5	12194.3	12069.0
5°	13739.7	13741.2	13747.4	13633.0	13472.1	13271.0	13073.0	12842.5	12680.1	12506.8	12211.3
7.5°	14573.5	14589.0	14596.7	14493.1	14271.8	13976.4	13665.5	13343.7	13097.7	12881.2	12401.6
10°	15282.0	15320.6	15305.2	15238.7	14989.6	14717.4	14316.7	13848.0	13523.1	13232.3	12585.7
12.5°	16001.3	16018.3	15978.1	15831.1	15661.0	15371.7	14957.1	14429.6	14022.8	13677.8	12831.7
15°	16733.0	16734.5	16668.0	16518.0	16275.1	16044.6	15685.7	15121.1	14672.5	14247.1	13192.1
17.5°	17325.5	17381.1	17288.3	17180.0	17002.1	16731.4	16494.8	15959.5	15492.4	15005.1	13713.4
20°	17865.3	17911.7	17917.9	17814.3	17747.8	17543.6	17357.9	16948.0	16460.7	15923.9	14409.5
22.5°	18303.1	18358.8	18428.4	18515.0	18618.7	18508.8	18474.8	18177.8	17758.6	17164.6	15391.8
25°	18609.4	18662.0	18937.3	19237.4	19461.7	19618.0	19785.0	19709.2	19338.0	18672.8	16678.8
27.5°	18742.4	18818.2	19211.1	19785.0	20374.4	20758.1	21254.6	21426.3	21086.0	20566.2	18236.6
30°	18785.7	18875.5	19348.8	20114.5	21164.9	21994.0	22707.2	23264.1	23101.6	22564.9	20114.5
32.5°	18617.1	18679.0	19212.7	20286.2	21769.7	23237.8	24181.4	25245.7	25228.6	24973.4	22269.4
35°	18049.4	18151.5	18830.6	20261.5	22284.9	24359.3	25644.8	27409.8	27977.5	27717.6	24903.8
37.5°	17311.5	17410.5	18233.5	19959.8	22592.7	25316.8	27272.1	29903.4	30644.4	30271.6	27227.3
40°	16442.2	16570.6	17484.8	19412.2	22676.2	26076.4	28729.3	32321.2	33105.5	32896.7	29567.7
42.5°	15399.5	15551.1	16587.6	18745.5	22512.3	26665.7	30232.9	35217.1	36191.6	35917.8	31875.7
45°	14384.8	14434.3	15398.0	17631.7	22079.1	27131.3	31529.2	37552.9	38863.2	38560.0	34312.1
47.5°	13340.6	13462.8	14380.1	16408.1	21081.4	27286.0	32752.8	40273.9	41717.2	41352.1	36946.5
50°	11048.1	11191.9	13138.0	15240.2	19747.9	26970.5	34024.4	42987.2	44456.8	43782.3	39242.1
52.5°	8972.1	9064.9	10401.5	14106.3	18128.3	26149.1	35153.7	45700.5	47013.9	46279.1	41380.0
55°	8243.5	8322.4	8890.1	12243.8	16640.2	24605.2	35772.4	48466.4	49210.5	48344.2	43443.6
57.5°	7782.5	7859.9	8190.9	9914.2	15084.0	22136.4	35916.3	50497.5	51223.0	50180.4	45205.5
60°	7170.0	7255.0	7747.0	8689.0	13407.1	19181.8	35002.1	52352.3	52845.7	51815.5	46933.4
62.5°	6747.6	6783.2	7120.5	7938.8	11700.9	16654.1	32191.3	53133.4	53882.2	53090.1	48416.9
65°	6241.8	6331.5	6614.6	7358.7	10395.3	15020.5	29207.3	52256.3	53619.2	53407.3	49229.0
67.5°	5689.6	5745.2	6031.4	6639.4	9038.6	13738.2	26173.8	50568.7	52296.6	52485.3	48710.8
70°	5086.3	5086.3	5340.0	5848.9	7457.7	12112.3	21539.2	48025.5	49768.9	49936.0	46093.4
72.5°	4305.1	4319.0	4606.7	5049.1	6187.7	10232.8	16757.7	43773.1	46167.7	46755.5	41806.9
75°	3392.4	3451.2	3777.6	4285.0	5047.6	8212.6	12118.5	34900.0	41310.4	42501.5	36398.9
77.5°	734.8	968.4	2286.3	2967.0	3909.1	6412.0	7467.0	20527.6	31824.7	34462.2	28707.7
80°	326.4	371.3	1135.4	1904.3	2270.9	4130.3	4014.2	9239.7	12715.6	19399.9	18764.1
82.5°	160.9	219.7	482.6	1195.8	1359.7	1454.1	1540.7	4390.1	5940.2	7177.7	8026.9
85°	44.9	74.3	249.1	478.0	569.3	352.7	572.4	2063.6	3018.0	3458.9	3333.6
87.5°	0.0	0.0	71.2	148.5	131.5	49.5	153.1	657.4	988.5	1177.2	1016.3
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°	11928.3	11928.3	11928.3	11928.3	11928.3	11928.3	11928.3	11928.3	11928.3	11928.3	11928.3
2.5°	11999.4	11886.5	11747.3	11541.5	11383.8	11250.7	11168.7	11017.1	10978.5	10969.2	10927.4
5°	12047.4	11838.5	11498.2	11139.3	10848.5	10568.5	10387.5	10239.0	10116.8	10143.1	10034.8
7.5°	12154.1	11857.1	11331.2	10812.9	10334.9	9973.0	9685.2	9416.1	9297.0	9297.0	9222.7
10°	12245.4	11860.2	11184.2	10503.6	9877.1	9363.5	8993.8	8744.7	8551.3	8491.0	8466.3
12.5°	12373.8	11875.7	11001.7	10177.2	9456.3	8761.7	8330.1	8023.8	7867.6	7810.4	7669.6
15°	12604.3	11980.9	10836.1	9812.1	8953.5	8198.7	7655.7	7354.0	7174.6	7111.2	7084.9
17.5°	12980.2	12191.2	10721.7	9411.4	8458.5	7643.3	7057.0	6695.0	6509.4	6360.9	6343.9
20°	13484.5	12528.5	10686.1	9094.3	7931.0	7092.6	6393.4	5957.2	5607.6	5394.1	5397.2
22.5°	14239.4	13021.9	10751.1	8808.1	7476.2	6534.2	5723.6	5061.5	4475.2	4218.4	4161.2
25°	15300.5	13767.5	10922.8	8574.6	7019.9	5958.7	4809.4	3833.3	3268.6	3007.2	2950.0
27.5°	16660.3	14817.9	11241.4	8376.5	6588.3	5152.8	3698.7	2750.4	2238.4	2006.3	1910.4
30°	18129.8	16131.2	11747.3	8214.1	6040.7	4039.0	2632.8	1891.9	1418.5	1268.5	1268.5
32.5°	20244.5	17715.3	12393.9	8028.5	5322.9	2902.0	1754.2	1222.1	898.8	799.8	799.8
35°	22503.0	19570.0	13209.1	7815.0	4303.5	1984.7	1092.1	720.9	594.0	595.6	594.0
37.5°	24459.8	21206.7	13994.9	7490.2	3138.7	1270.0	646.6	522.9	505.8	491.9	505.8
40°	26614.7	22920.6	14565.8	6959.6	2060.5	734.8	461.0	470.3	451.7	419.2	408.4
42.5°	28532.9	24470.7	14952.5	6115.0	1297.9	457.9	403.7	422.3	419.2	374.4	346.5
45°	30570.1	26133.6	15127.3	4840.3	713.1	414.6	355.8	394.5	392.9	341.9	314.0
47.5°	32573.4	27671.2	15053.0	3294.9	481.1	379.0	327.9	351.1	362.0	312.5	283.1
50°	35169.1	29061.9	14636.9	1895.0	439.3	354.2	304.7	297.0	320.2	269.2	252.1
52.5°	37194.0	30465.0	13792.3	1016.3	416.1	337.2	281.5	249.1	269.2	221.2	233.6
55°	39016.3	31660.7	12315.0	700.8	411.5	320.2	270.7	219.7	224.3	191.8	188.7
57.5°	40829.3	32796.2	10441.7	617.2	417.7	321.8	246.0	191.8	174.8	156.2	129.9
60°	42284.9	33965.6	8348.7	566.2	420.8	318.7	215.0	167.1	126.8	106.7	102.1
62.5°	43401.8	34602.9	6265.0	527.5	409.9	292.4	194.9	139.2	102.1	77.3	74.3
65°	43930.8	34530.2	4221.5	487.3	405.3	280.0	179.4	117.6	80.4	60.3	57.2
67.5°	43077.0	32817.8	2680.8	447.1	397.6	267.6	168.6	102.1	69.6	49.5	46.4
70°	40212.1	29951.4	1593.3	400.7	377.4	246.0	162.4	91.3	60.3	38.7	32.5
72.5°	35617.7	25907.7	1005.5	335.7	341.9	207.3	120.7	77.3	51.0	23.2	20.1
75°	29903.4	20809.1	727.1	249.1	278.4	164.0	95.9	66.5	41.8	13.9	12.4
77.5°	23222.3	14012.0	556.9	164.0	185.6	116.0	68.1	51.0	30.9	7.7	6.2
80°	14162.0	8082.6	437.8	92.8	114.5	68.1	30.9	32.5	13.9	1.5	0.0
82.5°	6832.7	3698.7	253.7	49.5	38.7	35.6	7.7	0.0	1.5	0.0	0.0
85°	2390.0	1113.8	48.0	29.4	12.4	10.8	0.0	0.0	0.0	0.0	0.0
87.5°	640.4	198.0	13.9	12.4	1.5	0.0	0.0	0.0	0.0	0.0	0.0
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)