

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: P381127

Luminaire Tested: **PRV-PA2B-740-U-T2U**

Issue Date: 1/15/2020

Test Information

Test Method: LM-79-08
Report Number: P381127
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1910-568-12)
Test Lab: INNOVATIONS CENTER
Issue Date: 1/15/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: PRV-PA2B-740-U-T2U
Description: PREVAIL AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 4000K, 970mA LIGHT ENGINES WITH 24 LEDS AND TYPE II U OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 19724 lumens
Efficiency: N/A
Efficacy: 130.6 lumens/watt
Luminous Opening: Rectangular (W 1.1' x L: 1.12' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

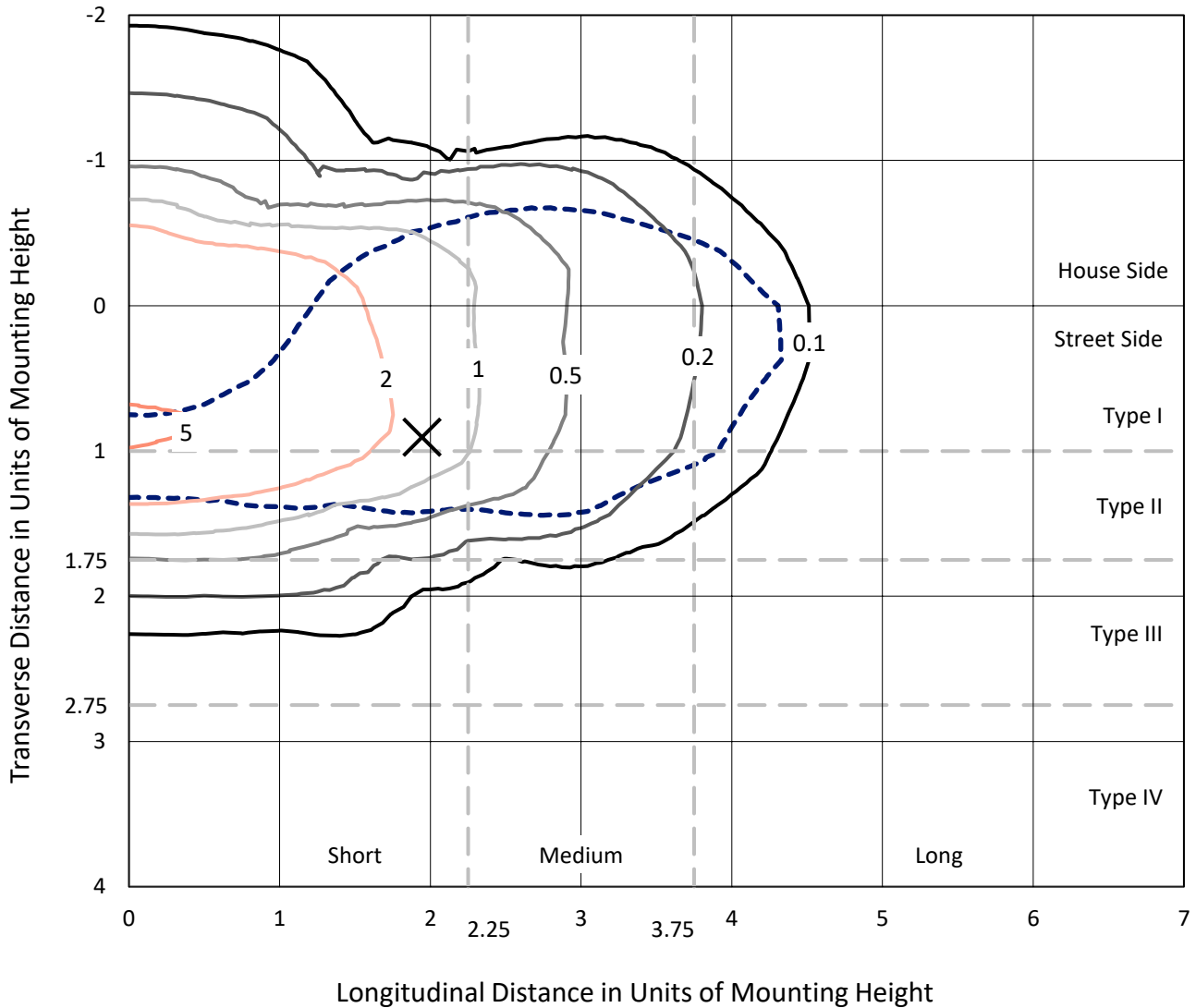
Input Watts (W): 151
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

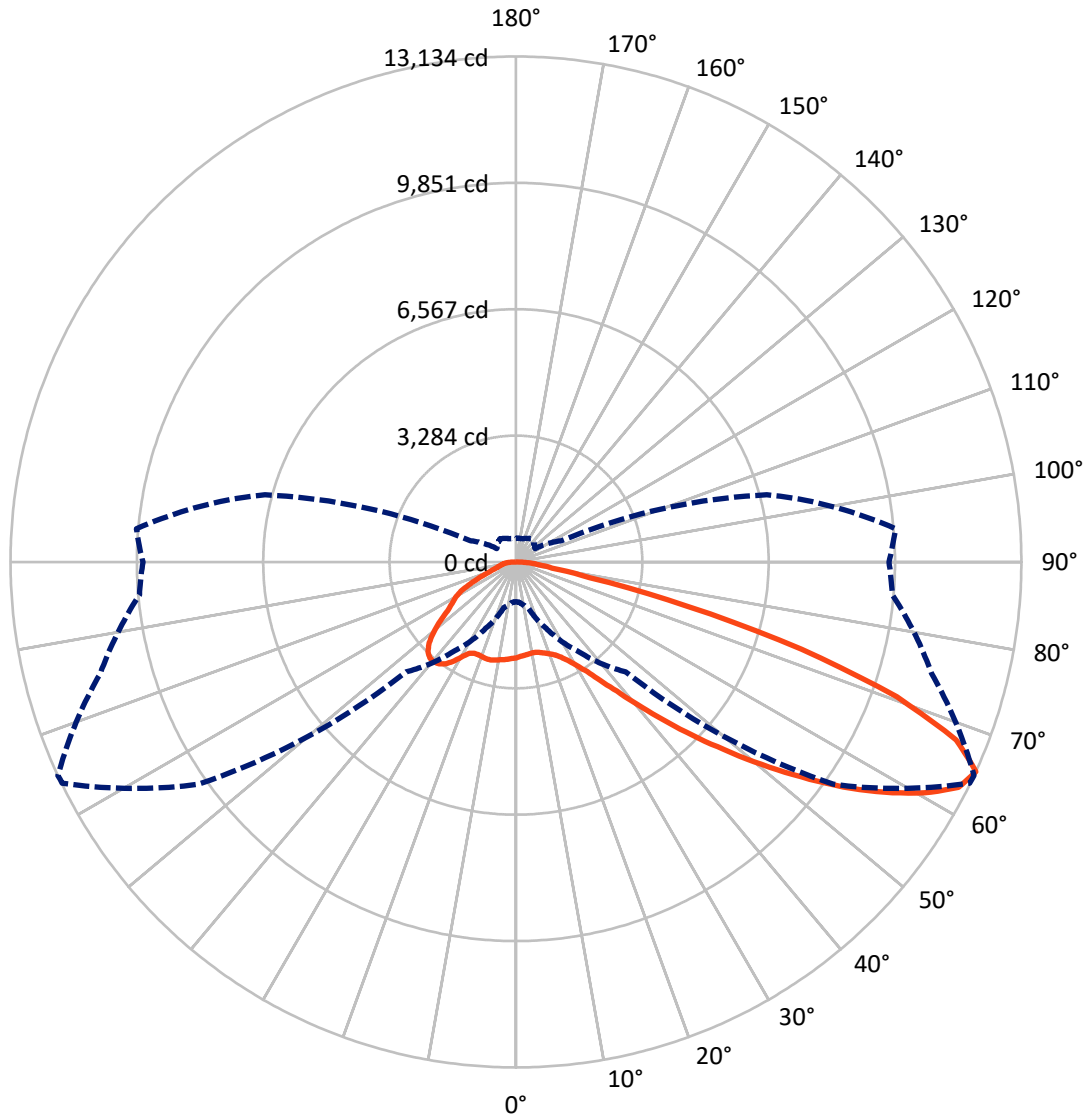
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.4 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 65-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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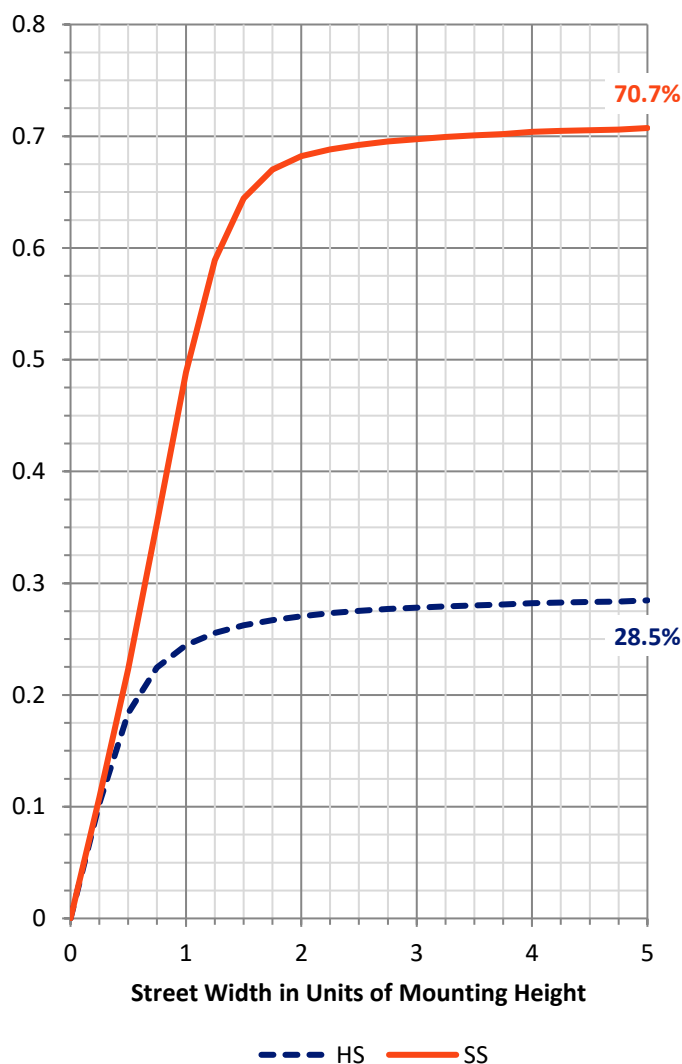
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5702.5	0.0	5702.5
	% Fixture	28.9	0.0	28.9
Street Side	Lumens	14021.5	0.0	14021.5
	% Fixture	71.1	0.0	71.1
Total	Lumens	19724.0	0.0	19724.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	237.4	1.2
10°-20°	708.9	3.6
20°-30°	1259.2	6.4
30°-40°	2130.3	10.8
40°-50°	3708.5	18.8
50°-60°	4792.6	24.3
60°-70°	4193.8	21.3
70°-80°	2281.1	11.6
80°-90°	412.2	2.1
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°	19724.0	100.0
0°-180°	19724.0	100.0

Coefficient of Utilization



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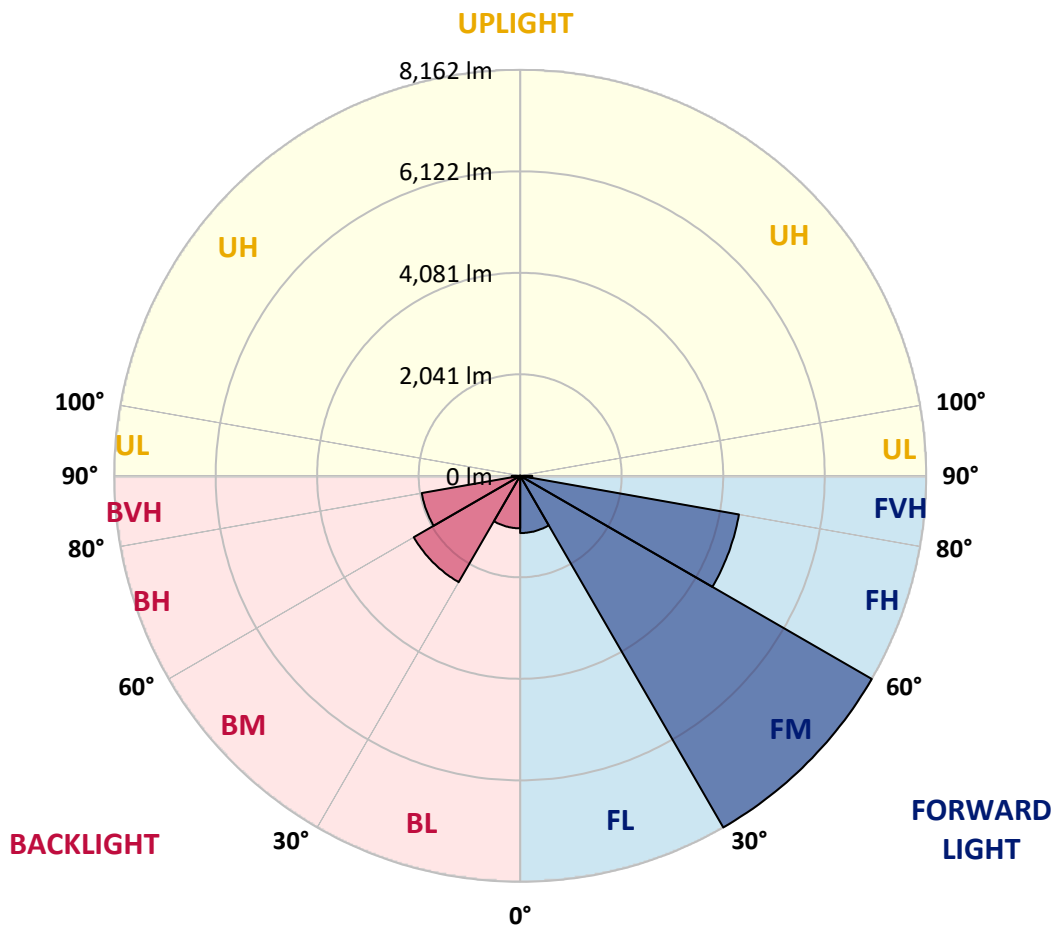
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1150.8	5.8			
FM (30°-60°)	8162.3	41.4			
FH (60°-80°)	4465.8	22.6			G2/5000
FVH (80°-90°)	242.5	1.2			G3/500
BL (0°-30°)	1054.8	5.3	B3/2500		
BM (30°-60°)	2469.1	12.5	B2/2500		
BH (60°-80°)	2009.1	10.2	B3/2500		G3/2500
BVH (80°-90°)	169.6	0.9			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	64°	65°	75°	85°
0°	2492.3	2492.3	2492.3	2492.3	2492.3	2492.3	2492.3	2492.3	2492.3	2492.3	2492.3
2.5°	2448.2	2445.6	2440.4	2445.6	2448.2	2453.4	2450.8	2456.0	2453.4	2461.2	2474.1
5°	2385.9	2380.7	2378.1	2391.1	2398.9	2411.8	2417.0	2435.2	2432.6	2445.6	2466.4
7.5°	2315.8	2315.8	2313.2	2328.8	2339.1	2362.5	2380.7	2411.8	2414.4	2437.8	2461.2
10°	2261.3	2263.9	2261.3	2274.2	2289.8	2318.4	2349.5	2393.7	2396.3	2430.0	2453.4
12.5°	2240.5	2240.5	2240.5	2258.7	2279.4	2318.4	2354.7	2401.5	2406.6	2443.0	2463.8
15°	2269.0	2271.6	2266.5	2284.6	2308.0	2354.7	2388.5	2437.8	2443.0	2476.7	2489.7
17.5°	2370.3	2380.7	2367.7	2378.1	2372.9	2409.2	2440.4	2489.7	2492.3	2520.9	2526.1
20°	2570.2	2580.6	2559.8	2546.8	2500.1	2497.5	2510.5	2549.4	2549.4	2567.6	2554.6
22.5°	2879.1	2889.5	2853.2	2803.9	2692.2	2637.7	2609.1	2627.3	2624.7	2632.5	2598.8
25°	3289.3	3286.7	3242.6	3151.7	2972.6	2840.2	2770.1	2741.5	2741.5	2726.0	2684.4
27.5°	3798.2	3759.2	3681.4	3572.3	3323.1	3138.8	2988.2	2915.5	2902.5	2855.8	2777.9
30°	4340.8	4312.2	4200.6	4042.2	3754.1	3517.8	3268.6	3123.2	3115.4	3014.1	2897.3
32.5°	4979.4	4932.7	4808.1	4618.6	4273.3	3941.0	3629.4	3408.8	3395.8	3234.8	3073.9
35°	5799.8	5760.9	5519.4	5329.9	4886.0	4449.8	4081.2	3787.8	3777.4	3580.1	3375.0
37.5°	6783.8	6682.5	6448.9	6093.2	5625.9	5109.3	4641.9	4273.3	4260.3	4042.2	3782.6
40°	7661.3	7570.4	7362.7	7035.6	6534.5	5960.8	5327.3	4880.8	4867.8	4603.0	4275.9
42.5°	8310.3	8248.0	8113.0	7923.5	7565.2	7217.3	6202.2	5615.5	5592.1	5249.4	4841.8
45°	8686.8	8637.4	8559.6	8606.3	8601.1	8536.2	7245.9	6490.4	6415.1	5971.2	5472.7
47.5°	8595.9	8551.8	8582.9	8946.4	9447.4	9823.9	8460.9	7386.1	7284.8	6705.9	6145.1
50°	7939.1	7957.2	8120.8	8816.6	9940.7	10776.7	9808.3	8406.4	8271.4	7445.8	6783.8
52.5°	6742.2	6786.4	7183.6	8157.1	9886.2	11394.6	11025.9	9460.4	9281.3	8167.5	7365.3
55°	5355.9	5467.5	5981.6	7004.5	9174.8	11438.7	11945.0	10519.7	10322.3	8845.1	7871.6
57.5°	3961.7	4127.9	4722.4	5662.2	7811.9	10740.3	12404.5	11532.2	11293.3	9517.5	8406.4
60°	2513.1	2614.3	3299.7	4408.3	5979.0	9032.1	12344.8	12394.1	12186.4	10187.3	8964.6
62.5°	1604.4	1653.8	1999.0	3144.0	4179.8	6687.7	11693.1	13045.7	12905.5	10797.4	9494.2
65°	1030.7	1051.4	1228.0	1934.1	2845.4	4037.0	10070.5	13115.8	13134.0	11179.1	9821.3
67.5°	838.6	848.9	913.8	1194.2	2012.0	2230.1	7014.8	12118.9	12339.6	11080.4	9709.7
70°	763.3	776.3	843.8	952.8	1557.7	1539.5	3395.8	10140.6	10501.5	10511.9	9213.8
72.5°	643.8	662.0	752.9	900.9	1204.6	1215.0	1438.3	7222.5	7754.7	9395.5	8468.7
75°	537.4	547.8	625.7	794.4	1020.3	971.0	1009.9	3829.3	4597.8	7534.1	7676.9
77.5°	436.2	446.5	503.7	633.5	906.1	755.5	794.4	1586.3	1960.1	5114.4	6274.9
80°	311.5	321.9	386.8	493.3	685.4	680.2	589.3	874.9	950.2	2764.9	4076.0
82.5°	223.3	231.1	293.4	353.1	475.1	682.8	443.9	594.5	623.1	1225.4	1643.4
85°	150.6	150.6	202.5	233.7	306.3	431.0	358.3	402.4	420.6	581.5	443.9
87.5°	64.9	64.9	109.0	119.4	161.0	199.9	267.4	202.5	207.7	314.1	181.7
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°	2492.3	2492.3	2492.3	2492.3	2492.3	2492.3	2492.3	2492.3	2492.3	2492.3	2492.3
2.5°	2481.9	2484.5	2489.7	2505.3	2515.7	2531.3	2539.0	2549.4	2549.4	2544.2	2546.8
5°	2476.7	2484.5	2502.7	2531.3	2549.4	2578.0	2598.8	2614.3	2619.5	2614.3	2616.9
7.5°	2474.1	2487.1	2518.3	2559.8	2585.8	2622.1	2650.7	2668.9	2681.8	2676.6	2679.2
10°	2466.4	2487.1	2526.1	2578.0	2616.9	2653.3	2679.2	2687.0	2694.8	2689.6	2687.0
12.5°	2476.7	2500.1	2541.6	2604.0	2648.1	2676.6	2684.4	2671.5	2653.3	2642.9	2640.3
15°	2497.5	2520.9	2562.4	2627.3	2666.3	2676.6	2658.5	2616.9	2575.4	2552.0	2549.4
17.5°	2526.1	2541.6	2575.4	2632.5	2663.7	2650.7	2614.3	2565.0	2533.9	2515.7	2518.3
20°	2544.2	2544.2	2570.2	2614.3	2640.3	2629.9	2585.8	2531.3	2481.9	2458.6	2450.8
22.5°	2570.2	2557.2	2559.8	2598.8	2635.1	2619.5	2526.1	2430.0	2359.9	2334.0	2331.4
25°	2640.3	2604.0	2580.6	2604.0	2689.6	2562.4	2375.5	2263.9	2199.0	2175.6	2178.2
27.5°	2726.0	2676.6	2627.3	2666.3	2733.8	2432.6	2183.4	2056.2	2017.2	1999.0	2006.8
30°	2811.6	2746.7	2681.8	2822.0	2702.6	2230.1	1936.7	1812.1	1778.4	1765.4	1775.8
32.5°	2970.0	2863.6	2785.7	3029.7	2606.5	1999.0	1669.3	1555.1	1523.9	1508.4	1503.2
35°	3234.8	3099.8	3021.9	3211.5	2471.5	1742.0	1425.3	1344.8	1311.1	1277.3	1272.1
37.5°	3616.5	3452.9	3382.8	3315.3	2282.0	1487.6	1238.4	1183.9	1134.5	1082.6	1080.0
40°	4073.4	3860.5	3808.6	3362.0	2019.8	1248.8	1108.6	1056.6	994.3	945.0	947.6
42.5°	4600.4	4327.8	4216.2	3349.1	1695.3	1121.5	1015.1	958.0	903.5	859.3	856.7
45°	5163.8	4854.8	4597.8	3258.2	1373.4	1033.3	958.0	890.5	836.0	786.6	781.4
47.5°	5786.8	5441.6	4950.9	3081.6	1134.5	971.0	924.2	828.2	778.8	747.7	747.7
50°	6415.1	6002.3	5275.4	2814.2	994.3	924.2	874.9	794.4	755.5	729.5	729.5
52.5°	6952.5	6586.5	5542.8	2494.9	906.1	885.3	841.2	778.8	737.3	713.9	711.3
55°	7474.4	7129.1	5781.7	2178.2	833.4	833.4	833.4	765.9	719.1	698.4	695.8
57.5°	7993.6	7700.2	6030.9	1970.5	768.5	789.2	817.8	750.3	703.6	685.4	682.8
60°	8580.3	8385.6	6319.1	1825.1	711.3	742.5	797.0	732.1	677.6	662.0	659.4
62.5°	9203.4	9203.4	6581.3	1620.0	659.4	703.6	765.9	708.8	654.2	641.3	638.7
65°	9691.5	9901.8	6750.0	1313.7	607.5	664.6	729.5	677.6	623.1	620.5	615.3
67.5°	9748.6	10078.3	6643.6	991.7	560.8	623.1	693.2	643.8	591.9	591.9	584.1
70°	9338.4	9673.3	6311.3	742.5	527.0	581.5	646.4	602.3	553.0	558.2	545.2
72.5°	8653.0	8736.1	5485.7	586.7	488.1	537.4	589.3	555.6	511.4	511.4	493.3
75°	7749.5	7287.4	3985.1	490.7	441.3	485.5	532.2	503.7	464.7	451.7	441.3
77.5°	6168.5	5280.6	2315.8	423.2	402.4	436.2	467.3	446.5	412.8	384.2	384.2
80°	3759.2	3094.6	1022.9	366.1	355.7	381.6	402.4	379.0	350.5	321.9	314.1
82.5°	1430.5	1194.2	495.9	314.1	311.5	327.1	342.7	319.3	298.6	285.6	246.6
85°	392.0	360.9	340.1	262.2	257.0	254.4	272.6	262.2	233.7	192.1	171.3
87.5°	148.0	168.8	184.3	161.0	171.3	158.4	181.7	166.2	148.0	96.1	85.7
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)