

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: P381381

Luminaire Tested: **PRV-PA1B-8540-U-T2U-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P381381
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1910-568-16)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: PRV-PA1B-8540-U-T2U-HSS
Description: PREVAIL AREA AND ROADWAY LUMINAIRE
(1) 85 CRI, 4000K, 930mA LIGHT ENGINE WITH 24 LEDS AND TYPE II U OPTICS
WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5397.2 lumens
Efficiency: N/A
Efficacy: 72.9 lumens/watt
Luminous Opening: Rectangular (W 1.1' x L: 1.12' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G1

Input Watts (W): 74
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

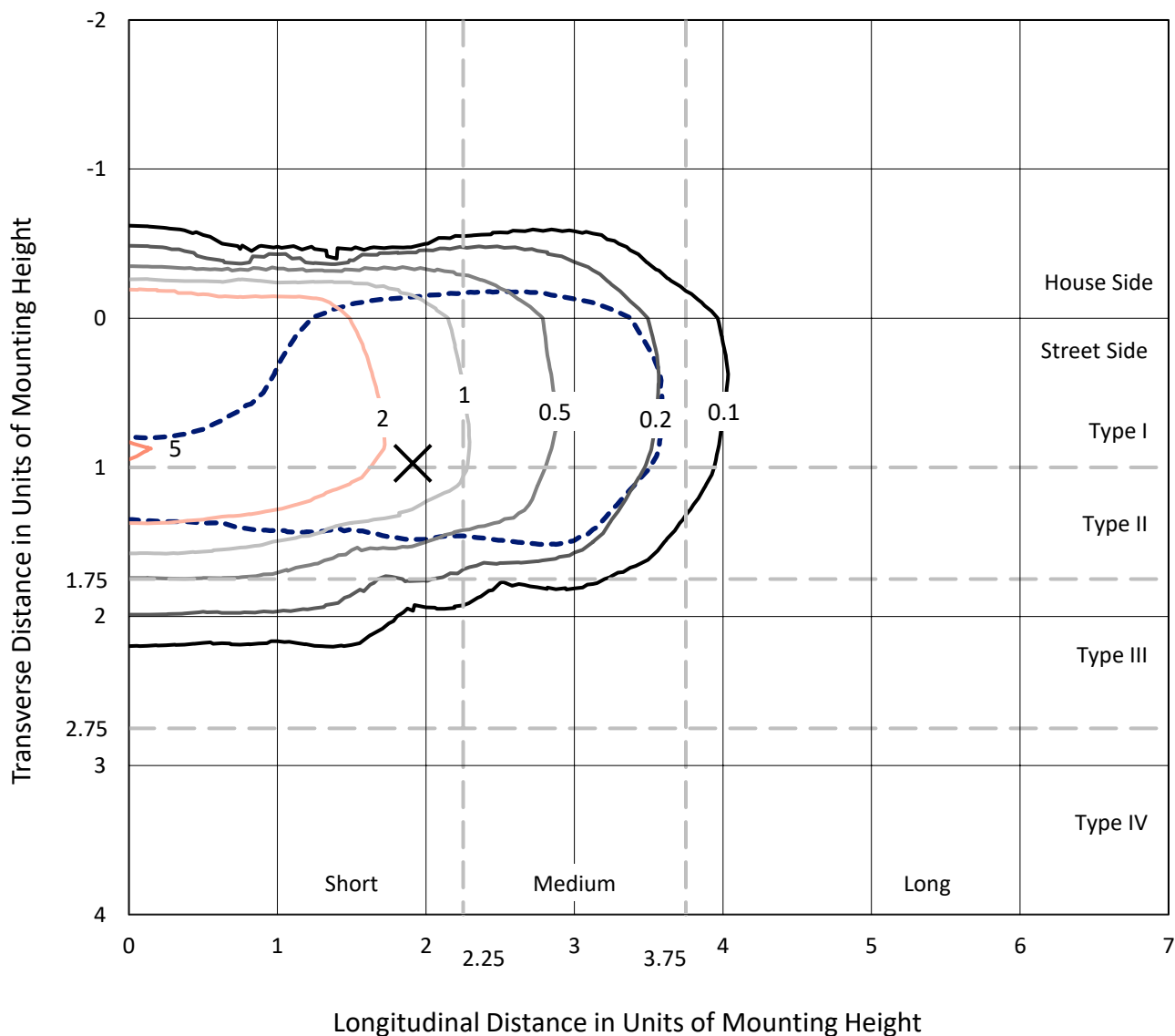


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

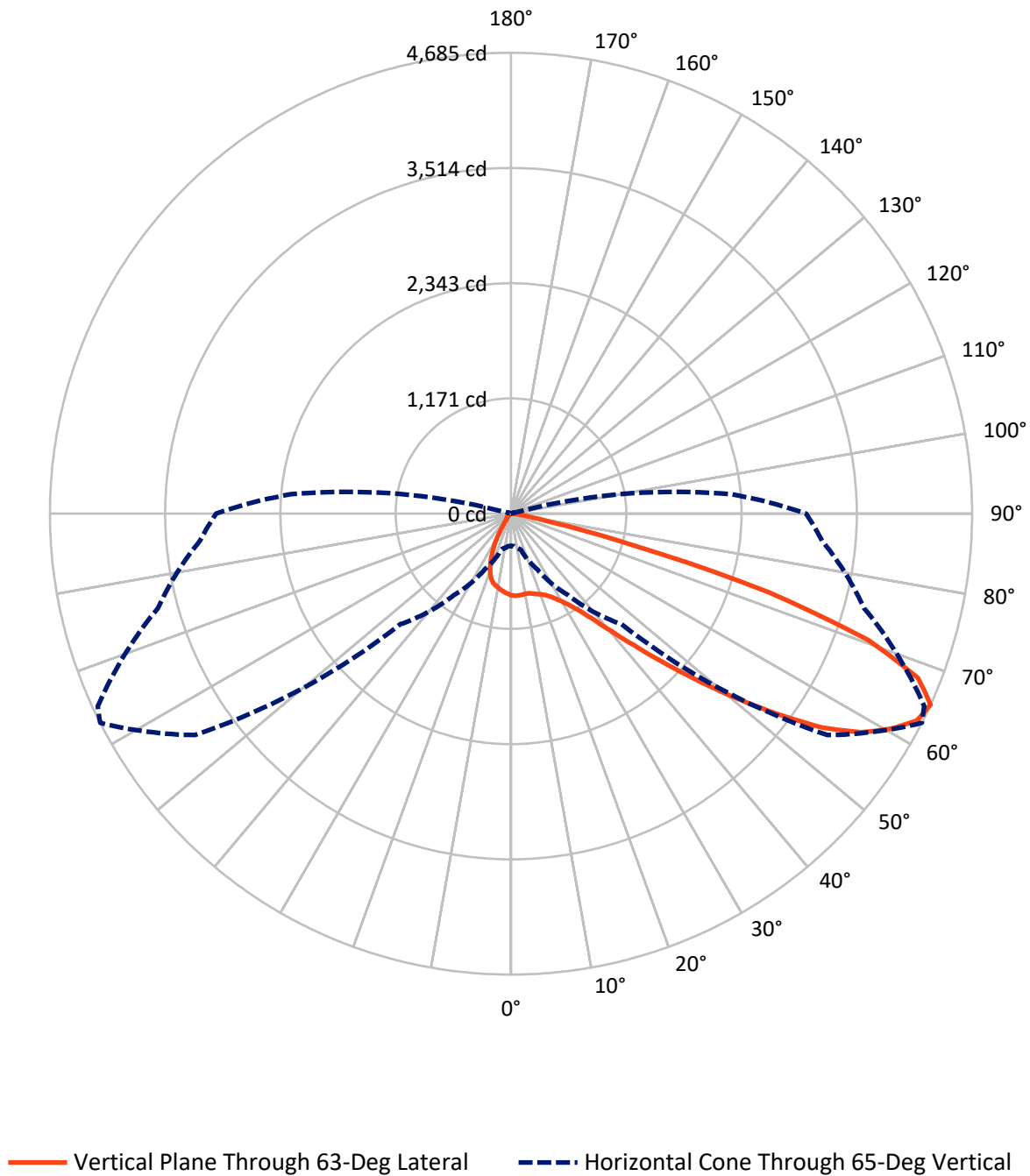


Based on 15 foot mounting height. Maximum calculated value = 5.2 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



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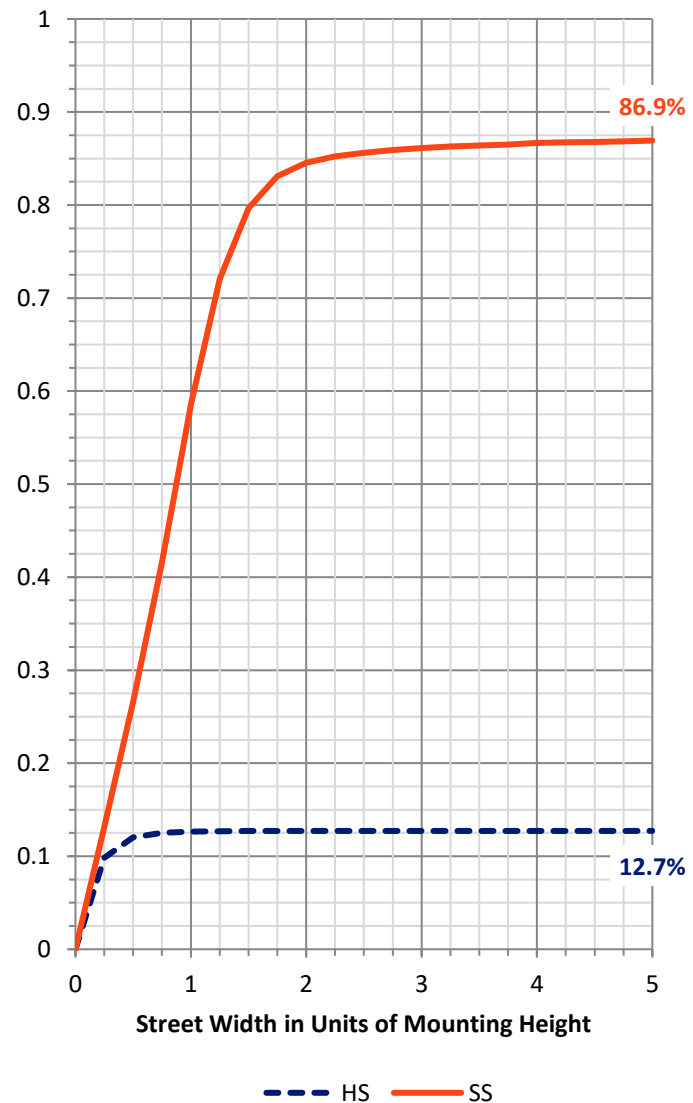
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	694.6	0.0	694.6
	% Fixture	12.9	0.0	12.9
Street Side	Lumens	4702.6	0.0	4702.6
	% Fixture	87.1	0.0	87.1
Total	Lumens	5397.2	0.0	5397.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	75.9	1.4
10°-20°	187.2	3.5
20°-30°	277.4	5.1
30°-40°	515.1	9.5
40°-50°	1091.1	20.2
50°-60°	1508.7	28.0
60°-70°	1207.8	22.4
70°-80°	501.8	9.3
80°-90°	32.2	0.6
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°	5397.2	100.0
0°-180°	5397.2	100.0

Coefficient of Utilization



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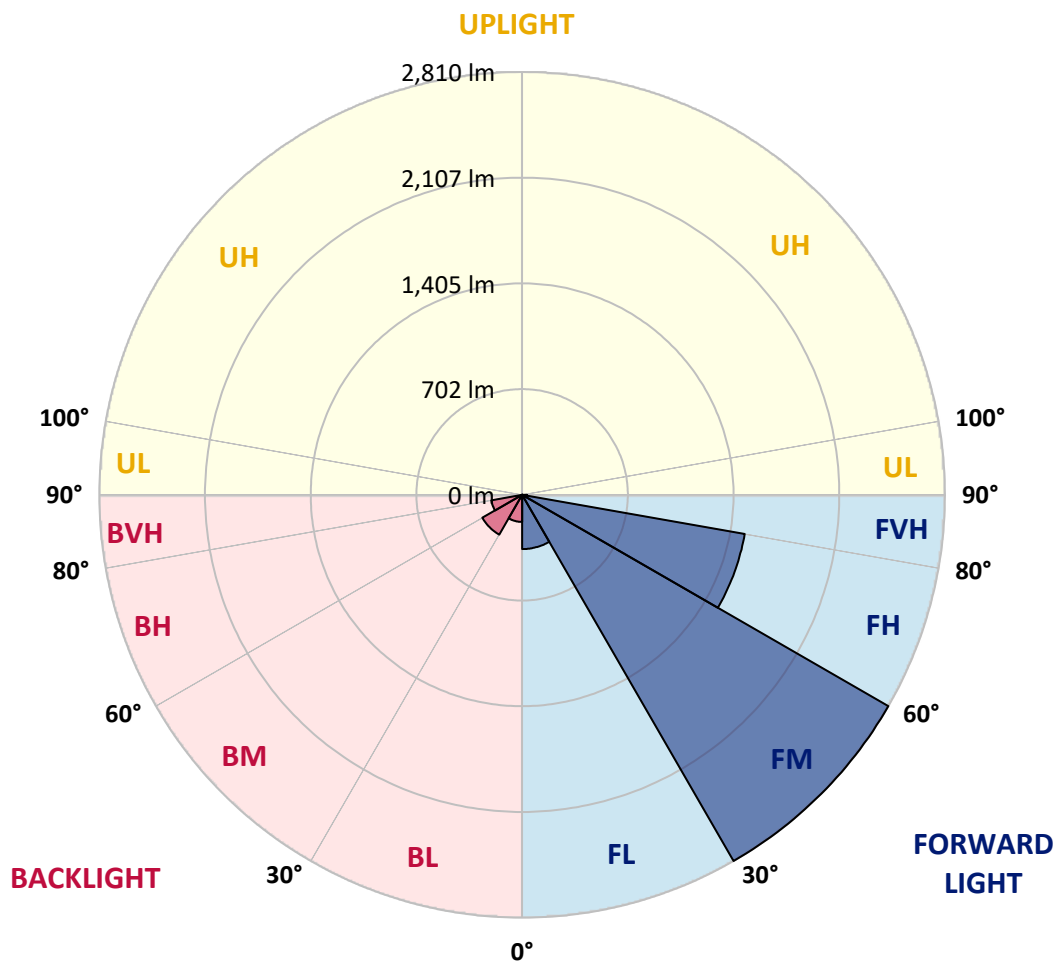
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	360.4	6.7			
FM	(30°-60°)	2809.8	52.1			
FH	(60°-80°)	1501.6	27.8			G1/1800
FVH	(80°-90°)	30.8	0.6			G1/100
BL	(0°-30°)	180.0	3.3	B1/500		
BM	(30°-60°)	305.1	5.7	B1/1000		
BH	(60°-80°)	208.0	3.9	B1/500		G1/500
BVH	(80°-90°)	1.5	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G1

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	63°	65°	75°	85°
0°	831.5	831.5	831.5	831.5	831.5	831.5	831.5	831.5	831.5	831.5	831.5
2.5°	845.7	843.7	841.6	840.6	840.6	839.6	835.5	834.5	832.5	830.4	828.4
5°	837.6	834.5	833.5	834.5	835.5	837.6	835.5	835.5	833.5	831.5	827.4
7.5°	817.2	815.1	816.2	819.3	820.3	827.4	828.4	831.5	831.5	829.4	826.4
10°	792.7	791.7	791.7	796.8	801.9	812.0	819.3	827.4	828.4	828.4	823.3
12.5°	774.4	773.4	776.4	782.5	792.7	805.9	818.2	830.4	832.5	833.5	825.4
15°	763.2	763.2	767.3	779.5	793.7	812.0	826.4	842.7	844.7	843.7	832.5
17.5°	753.0	754.0	762.2	782.5	798.8	823.3	840.6	859.0	860.0	859.0	840.6
20°	748.9	751.0	763.2	789.7	808.0	835.5	857.9	876.3	877.3	873.2	848.8
22.5°	760.1	761.2	776.4	804.9	822.3	852.8	881.3	898.7	899.7	893.6	861.0
25°	798.8	798.8	812.0	836.6	851.8	882.4	913.0	933.3	933.3	926.2	888.5
27.5°	889.5	881.3	878.3	885.4	890.5	923.2	955.7	981.3	980.2	970.0	924.2
30°	1064.8	1044.4	1011.8	975.1	956.7	979.2	1009.8	1042.3	1041.3	1025.0	967.9
32.5°	1359.2	1329.7	1252.3	1155.5	1077.0	1051.6	1080.1	1115.7	1116.7	1097.4	1038.3
35°	1771.9	1725.0	1586.4	1452.0	1272.6	1175.8	1184.0	1222.7	1234.9	1224.8	1156.5
37.5°	2169.3	2126.5	1994.1	1807.6	1564.0	1366.4	1331.7	1365.4	1379.6	1379.6	1307.3
40°	2569.7	2519.8	2402.6	2215.2	1958.4	1663.9	1539.6	1567.1	1582.4	1585.4	1490.7
42.5°	2890.7	2858.1	2768.5	2622.7	2382.3	2185.6	1839.2	1823.8	1838.2	1827.0	1703.7
45°	3112.8	3087.4	3025.2	2970.2	2853.0	2754.1	2239.6	2136.7	2145.9	2107.1	1943.1
47.5°	3158.7	3130.1	3116.9	3193.3	3276.9	3301.3	2731.7	2508.6	2499.4	2413.8	2191.7
50°	2959.0	2962.0	3010.9	3229.0	3577.4	3797.6	3302.4	2928.4	2894.8	2704.2	2423.0
52.5°	2528.0	2576.9	2700.2	3053.7	3669.1	4158.3	3873.0	3373.6	3321.7	2986.4	2596.2
55°	1977.7	2040.9	2243.7	2650.2	3477.6	4319.3	4353.9	3836.2	3718.1	3198.4	2730.7
57.5°	1470.3	1489.7	1726.0	2097.0	3024.2	4161.3	4600.4	4192.9	4041.1	3367.5	2864.2
60°	916.0	928.2	1177.9	1596.7	2290.5	3577.4	4600.4	4438.4	4293.7	3519.4	2986.4
62.5°	569.6	573.6	667.4	1094.3	1556.9	2653.3	4409.9	4629.0	4512.8	3628.4	3091.4
65°	328.1	332.1	376.0	618.5	1012.8	1588.5	3922.9	4685.0	4633.1	3715.0	3173.0
67.5°	239.4	241.5	258.8	347.4	662.3	816.2	2946.7	4459.8	4525.0	3757.8	3170.9
70°	207.9	210.9	233.3	271.0	477.9	501.3	1499.8	3851.6	4033.9	3696.7	3076.2
72.5°	160.0	164.0	197.7	254.7	350.5	360.7	543.1	2740.9	3017.1	3314.6	2816.3
75°	110.0	114.1	147.8	209.9	289.4	270.0	298.6	1261.4	1591.5	2223.3	2143.9
77.5°	70.3	71.3	92.7	152.8	249.6	191.5	204.8	411.6	577.7	1005.7	1011.8
80°	46.9	47.9	57.1	98.8	171.2	177.3	126.4	190.5	208.9	293.5	203.8
82.5°	28.5	28.5	38.7	62.2	103.9	146.7	82.5	99.8	107.0	113.1	53.0
85°	11.2	11.2	23.4	40.8	65.2	68.3	52.0	58.1	61.2	66.2	24.4
87.5°	3.1	3.1	13.2	22.4	28.5	31.6	31.6	28.5	30.5	37.7	12.2
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°	831.5	831.5	831.5	831.5	831.5	831.5	831.5	831.5	831.5	831.5	831.5
2.5°	827.4	824.3	820.3	816.2	812.0	809.0	805.9	805.9	803.9	800.9	798.8
5°	825.4	820.3	811.0	803.9	792.7	784.6	778.5	773.4	770.3	763.2	762.2
7.5°	822.3	816.2	802.9	788.6	770.3	756.1	741.8	731.6	721.4	713.2	711.2
10°	817.2	810.0	790.7	770.3	744.9	718.3	684.7	646.0	610.3	590.0	583.9
12.5°	817.2	808.0	782.5	755.0	718.3	653.1	567.5	481.9	415.7	386.2	378.0
15°	822.3	810.0	776.4	738.8	670.5	538.0	399.4	286.3	214.0	191.5	186.4
17.5°	827.4	810.0	767.3	716.3	582.9	390.2	227.2	150.8	127.4	122.3	122.3
20°	829.4	808.0	755.0	674.6	465.7	242.5	135.5	113.1	103.9	100.9	100.9
22.5°	837.6	809.0	745.9	614.4	338.3	142.7	107.0	94.7	85.6	82.5	82.5
25°	857.9	821.3	747.9	538.0	217.0	108.0	90.7	78.5	69.3	65.2	65.2
27.5°	890.5	848.8	759.1	449.4	136.6	92.7	76.4	63.2	56.1	52.0	52.0
30°	927.2	879.3	764.2	347.4	101.9	78.5	62.2	50.0	44.9	41.8	40.8
32.5°	991.4	932.3	760.1	238.4	83.5	66.2	50.0	39.8	35.6	34.6	34.6
35°	1094.3	1025.0	752.0	149.8	69.3	53.0	39.8	32.6	29.5	28.5	27.5
37.5°	1233.9	1160.6	727.5	98.8	57.1	41.8	32.6	27.5	24.4	23.4	23.4
40°	1404.1	1315.4	680.7	75.4	48.9	33.6	27.5	23.4	21.4	20.4	20.4
42.5°	1598.7	1487.6	606.3	65.2	40.8	28.5	23.4	19.3	18.3	17.3	17.3
45°	1811.6	1667.9	503.3	58.1	34.6	23.4	19.3	17.3	15.3	15.3	14.3
47.5°	2037.8	1849.4	387.2	51.0	29.5	20.4	17.3	14.3	13.2	12.2	12.2
50°	2255.9	2011.4	272.1	43.8	24.4	17.3	14.3	12.2	11.2	10.2	10.2
52.5°	2409.8	2109.2	192.5	37.7	20.4	15.3	11.2	9.2	8.1	8.1	8.1
55°	2533.1	2170.3	134.5	31.6	17.3	13.2	9.2	7.1	7.1	6.1	6.1
57.5°	2649.2	2210.0	98.8	26.5	14.3	10.2	7.1	5.1	5.1	4.1	4.1
60°	2769.5	2231.5	75.4	21.4	12.2	8.1	5.1	4.1	3.1	3.1	3.1
62.5°	2890.7	2244.7	58.1	17.3	10.2	6.1	4.1	3.1	2.0	1.0	1.0
65°	2996.7	2248.8	44.9	13.2	8.1	4.1	3.1	1.0	0.0	0.0	0.0
67.5°	3028.3	2201.9	34.6	10.2	6.1	3.1	2.0	0.0	0.0	0.0	0.0
70°	2942.7	2077.6	26.5	8.1	5.1	2.0	1.0	0.0	0.0	0.0	0.0
72.5°	2611.5	1742.3	20.4	5.1	4.1	2.0	1.0	0.0	0.0	0.0	0.0
75°	1868.7	929.3	14.3	4.1	3.1	1.0	0.0	0.0	0.0	0.0	0.0
77.5°	860.0	359.7	10.2	3.1	2.0	1.0	0.0	0.0	0.0	0.0	0.0
80°	168.1	89.7	4.1	2.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	38.7	15.3	2.0	2.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	13.2	5.1	1.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	5.1	2.0	1.0	0.0	0.0	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)