

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: P881890

Luminaire Tested: **NAV-SB1C-730-U-T4FT-HSS**

Issue Date: 10/7/2024

Test Information

Test Method: LM-79-08
Report Number: P881890
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-25)
Test Lab: INNOVATION CENTER
Issue Date: 10/7/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB1C-730-U-T4FT-HSS
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(1) 70 CRI, 3000K, 615mA LIGHTSQUARE WITH 26 LEDS AND TYPE IV FORWARD
THROW OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5586 lumens
Efficiency: N/A
Efficacy: 102.7 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G2

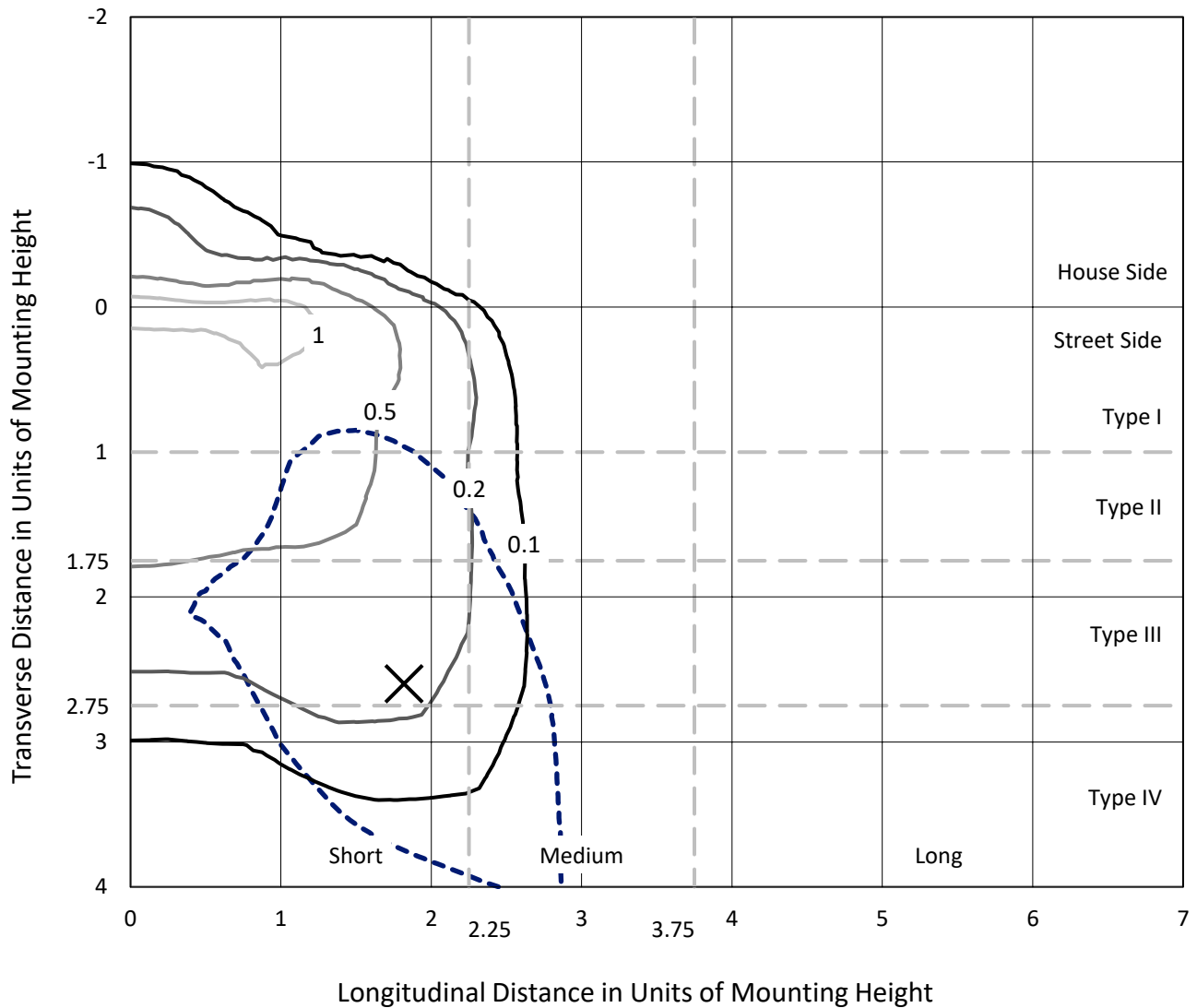
Input Watts (W): 54.4
Input Voltage (V): 120.0
Input Current (Ain): 0.437
Voltage Rise (V): NR
Power Factor: 0.993
Total Harmonic Distortion (THDi): 9.314
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

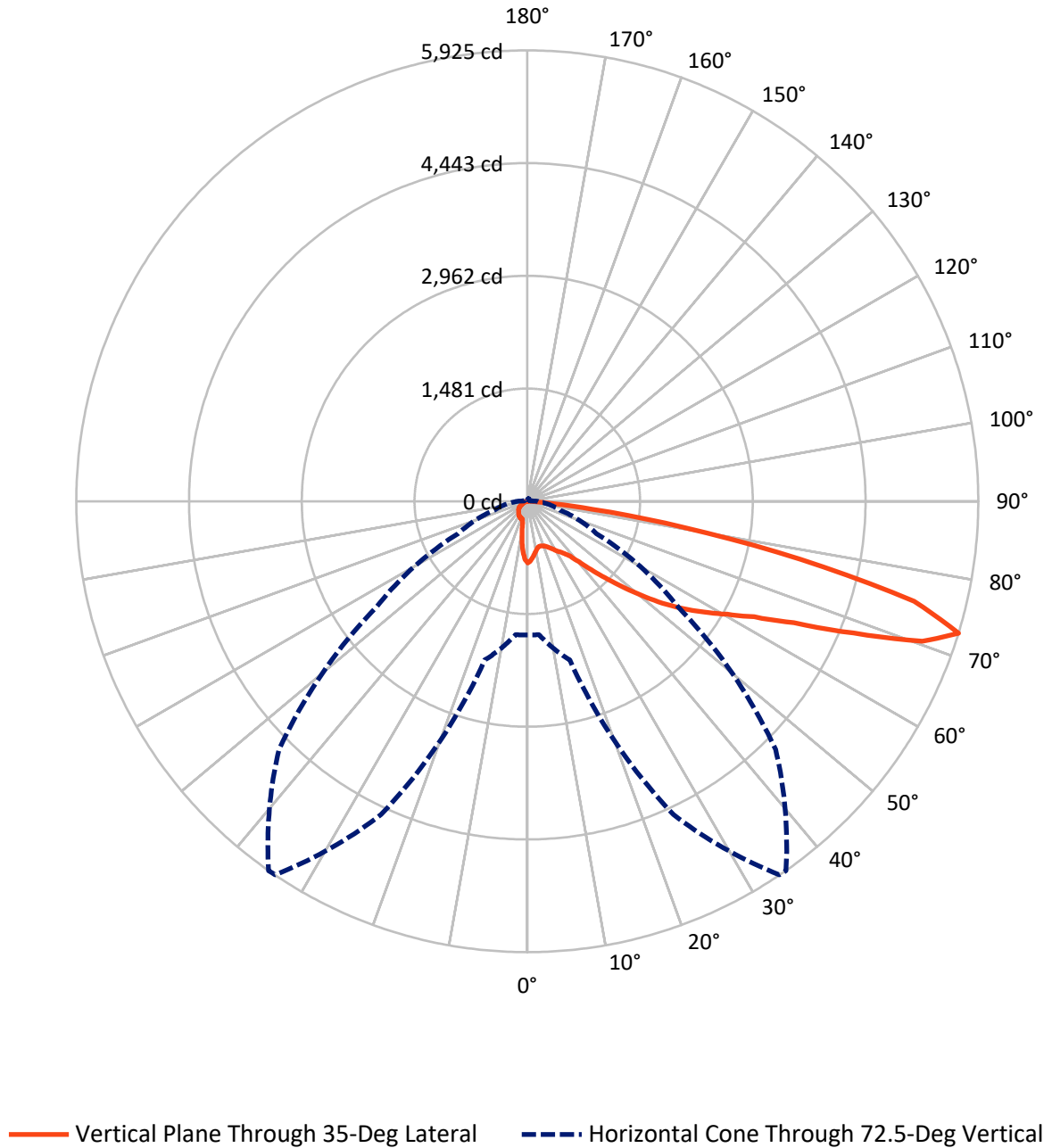
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.3 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	628.7	0.0	628.7
	% Fixture	11.3	0.0	11.3
Street Side	Lumens	4957.3	0.0	4957.3
	% Fixture	88.7	0.0	88.7
Total	Lumens	5586.0	0.0	5586.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	66.5	1.2
10°-20°	155.6	2.8
20°-30°	252.8	4.5
30°-40°	421.8	7.6
40°-50°	798.1	14.3
50°-60°	1268.2	22.7
60°-70°	1568.8	28.1
70°-80°	975.2	17.5
80°-90°	78.8	1.4
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°	5586.0	100.0
0°-180°	5586.0	100.0

Coefficient of Utilization



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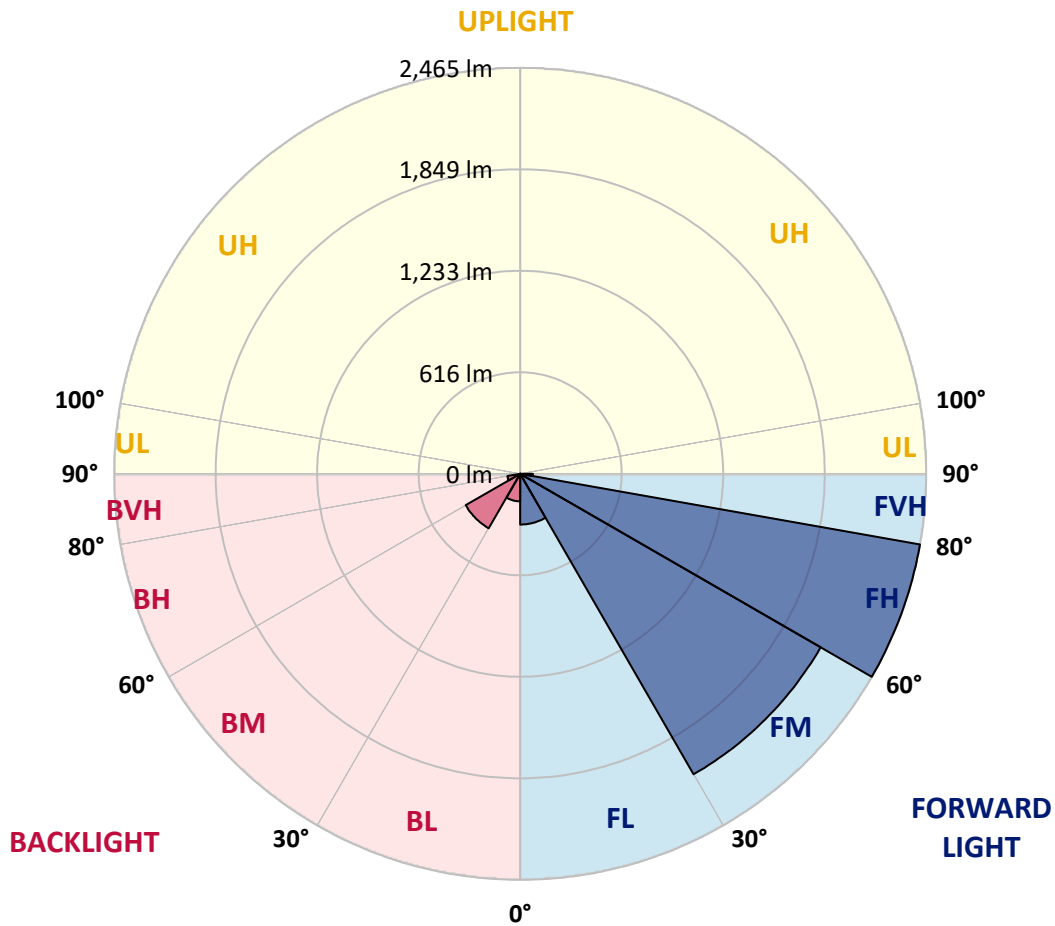
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	307.9	5.5			
FM (30°-60°)	2106.5	37.7			
FH (60°-80°)	2465.2	44.1			G2/5000
FVH (80°-90°)	77.7	1.4			G1/100
BL (0°-30°)	167.1	3.0	B1/500		
BM (30°-60°)	381.7	6.8	B1/1000		
BH (60°-80°)	78.9	1.4	B0/110		G0/110
BVH (80°-90°)	1.1	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-G2

Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	34°	35°	45°	55°	65°	75°	85°
0°	809.6	809.6	809.6	809.6	809.6	809.6	809.6	809.6	809.6	809.6	809.6
2.5°	773.6	780.1	781.4	783.4	783.4	785.9	790.0	795.7	805.1	810.0	813.3
5°	713.0	717.9	724.1	729.0	738.4	739.6	755.6	771.1	792.8	809.2	820.6
7.5°	652.0	657.7	665.9	677.8	690.1	693.8	717.9	744.1	778.5	809.2	828.4
10°	609.0	609.5	616.8	628.7	648.3	652.8	682.3	719.6	762.5	804.3	835.8
12.5°	584.9	587.8	591.0	600.0	618.9	621.7	653.2	697.0	746.6	801.4	844.4
15°	584.9	586.9	589.0	593.5	608.6	611.1	638.9	682.7	738.4	802.6	858.3
17.5°	591.0	594.3	592.7	598.0	614.0	615.6	640.1	678.6	738.0	810.4	879.6
20°	605.8	608.2	604.9	608.2	624.2	627.5	652.8	686.4	744.9	823.9	906.2
22.5°	629.1	630.3	622.5	625.0	641.4	645.5	674.9	708.5	761.7	845.6	941.8
25°	658.6	661.0	649.2	652.0	667.6	672.5	706.5	741.7	788.3	875.5	987.2
27.5°	692.5	693.8	683.5	683.1	703.2	710.1	744.5	782.6	823.9	913.2	1044.5
30°	731.4	735.1	725.3	723.6	749.0	754.8	788.7	832.9	876.3	969.6	1126.0
32.5°	762.1	765.0	759.3	763.3	789.1	793.6	842.3	904.1	958.6	1049.9	1236.9
35°	806.3	808.0	794.9	802.2	831.7	843.2	915.6	1004.0	1062.1	1150.5	1381.8
37.5°	966.4	966.4	910.7	874.3	902.5	912.7	1015.9	1129.7	1189.8	1285.6	1564.4
40°	1187.8	1184.1	1102.7	1028.2	1024.5	1044.5	1158.7	1288.1	1354.8	1447.7	1769.8
42.5°	1424.0	1418.2	1307.3	1233.6	1221.4	1228.3	1323.7	1483.3	1551.3	1645.4	1990.8
45°	1633.5	1631.9	1530.4	1431.3	1409.2	1431.3	1529.6	1711.7	1760.4	1859.5	2211.5
47.5°	1809.1	1809.1	1735.0	1670.4	1658.9	1672.0	1808.3	1965.1	1960.6	2087.4	2426.3
50°	2011.3	2009.7	1939.3	1911.4	1923.3	1941.7	2129.2	2231.9	2167.7	2311.3	2618.3
52.5°	2152.9	2162.7	2138.6	2134.1	2194.7	2226.6	2455.0	2493.1	2353.1	2523.8	2762.0
55°	2265.1	2276.5	2304.4	2335.9	2452.5	2494.3	2770.6	2740.7	2508.2	2707.9	2844.6
57.5°	2423.9	2407.5	2450.5	2512.7	2701.4	2751.7	3076.3	2974.4	2633.0	2857.3	2853.7
60°	2616.7	2619.1	2626.5	2705.1	2949.8	3014.5	3377.6	3195.4	2713.3	2949.0	2753.8
62.5°	2848.3	2852.0	2867.2	2987.9	3283.4	3344.4	3698.4	3376.3	2750.1	2923.2	2495.9
65°	2832.4	2847.9	3017.0	3429.9	3790.5	3850.7	4073.0	3503.2	2694.4	2687.5	2032.2
67.5°	2580.2	2605.6	2888.4	3957.9	4555.1	4622.2	4525.6	3528.2	2454.2	2089.9	1325.7
70°	2249.5	2258.5	2598.7	4432.7	5440.4	5508.4	4930.9	3253.5	1862.3	1165.7	593.9
72.5°	1756.7	1758.8	2157.8	4542.8	5921.0	5924.6	4612.8	2415.3	1001.6	447.8	206.3
75°	1254.9	1242.6	1445.2	3684.1	5209.2	5250.9	3458.2	1132.9	382.7	211.6	102.7
77.5°	672.9	686.4	817.8	2184.9	3598.6	3669.8	1886.9	326.6	194.8	144.1	67.9
80°	207.9	219.4	335.2	1000.3	2038.3	2081.3	699.5	145.3	135.9	102.7	44.6
82.5°	65.5	67.9	156.4	420.4	846.0	865.7	202.6	82.3	92.9	67.9	26.2
85°	18.8	19.2	69.6	156.8	209.2	213.2	56.9	31.9	53.2	42.2	13.5
87.5°	2.0	6.5	26.2	26.2	18.4	18.0	6.1	7.0	15.1	5.3	2.5
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°	809.6	809.6	809.6	809.6	809.6	809.6	809.6	809.6	809.6	809.6	809.6
2.5°	811.2	811.6	806.3	797.3	787.5	779.3	769.1	760.9	755.2	753.5	756.4
5°	817.0	814.1	799.0	771.5	738.8	710.5	679.0	654.1	637.7	630.7	633.2
7.5°	825.6	817.4	784.2	730.2	667.6	611.9	555.4	511.6	483.8	469.9	471.9
10°	832.9	816.6	759.7	670.4	574.7	490.3	414.2	361.4	331.9	318.0	318.4
12.5°	839.9	816.1	727.7	599.6	469.9	366.7	295.9	269.7	261.5	258.7	257.9
15°	853.0	817.4	687.6	518.6	365.5	277.1	251.3	250.9	252.5	251.7	251.3
17.5°	871.0	818.6	642.2	432.6	282.0	244.4	243.1	246.8	249.3	248.0	247.6
20°	894.3	823.5	593.9	347.5	242.3	236.2	239.0	242.3	244.4	242.3	241.9
22.5°	927.1	832.1	541.1	279.1	229.6	231.3	233.7	237.4	239.4	236.6	236.2
25°	967.2	845.6	489.1	242.7	223.5	225.5	229.2	233.3	235.8	232.9	232.5
27.5°	1019.2	867.3	441.2	234.5	217.3	218.6	223.9	230.0	233.3	229.6	229.6
30°	1094.5	902.9	399.9	238.2	213.7	210.8	218.2	226.8	230.4	227.2	226.8
32.5°	1194.3	953.3	374.5	243.9	212.0	201.8	208.7	219.8	225.9	223.9	223.9
35°	1325.3	1029.8	364.7	250.5	210.8	192.4	197.3	209.2	219.8	221.8	221.8
37.5°	1484.1	1136.2	367.6	253.4	207.1	184.6	187.1	197.3	211.2	217.7	219.4
40°	1664.6	1260.2	383.9	250.5	203.0	178.0	178.5	186.2	198.5	208.3	211.6
42.5°	1850.9	1405.1	414.2	239.9	199.3	172.3	171.1	176.4	184.6	191.6	194.4
45°	2028.1	1554.1	444.1	225.1	194.8	166.6	163.7	165.8	167.4	170.3	171.9
47.5°	2182.8	1658.9	435.5	211.6	188.7	160.0	155.1	154.3	149.4	149.0	148.6
50°	2289.6	1681.8	386.8	198.1	179.7	152.7	144.9	140.0	131.4	127.3	127.7
52.5°	2323.6	1591.4	316.0	184.6	164.9	142.8	131.8	124.0	113.4	109.7	109.3
55°	2278.6	1414.1	252.5	168.2	144.5	129.7	117.5	107.2	98.6	94.1	94.1
57.5°	2168.5	1188.6	199.7	149.0	122.8	115.0	102.7	92.5	85.1	80.6	79.8
60°	1985.9	943.8	158.0	126.1	104.8	99.1	86.4	79.8	73.3	67.9	66.7
62.5°	1708.8	673.7	124.0	99.9	87.6	81.0	73.7	68.8	61.0	53.6	52.4
65°	1333.5	412.2	95.8	73.3	70.4	67.1	62.6	58.1	48.7	41.3	40.1
67.5°	841.1	195.2	68.4	55.3	55.7	54.0	52.0	48.3	41.3	34.8	34.0
70°	370.4	94.5	45.0	42.2	41.3	41.3	43.0	41.7	35.2	29.1	27.8
72.5°	126.1	50.8	33.6	31.9	29.9	29.5	36.0	34.8	28.2	22.5	21.3
75°	65.9	34.0	24.6	22.9	18.0	21.7	28.7	27.0	20.1	14.7	13.5
77.5°	43.0	24.1	16.8	14.7	10.2	14.3	21.3	18.8	11.9	7.4	6.5
80°	27.0	16.0	9.8	7.0	4.9	7.8	11.5	8.2	4.5	1.6	1.2
82.5°	14.3	8.2	3.7	2.5	2.0	2.5	2.9	2.0	0.8	0.0	0.0
85°	5.7	2.9	1.2	0.8	0.4	0.0	0.8	0.4	0.0	0.0	0.0
87.5°	2.0	0.4	0.0	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)