

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: P960518

Luminaire Tested: **NAV-SB1C-830-U-T4W-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P960518
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-2)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB1C-830-U-T4W-HSS
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(1) 80 CRI, 3000K, 615mA LIGHTSQUARE WITH 26 LEDS AND TYPE IV WIDE OPTICS
WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

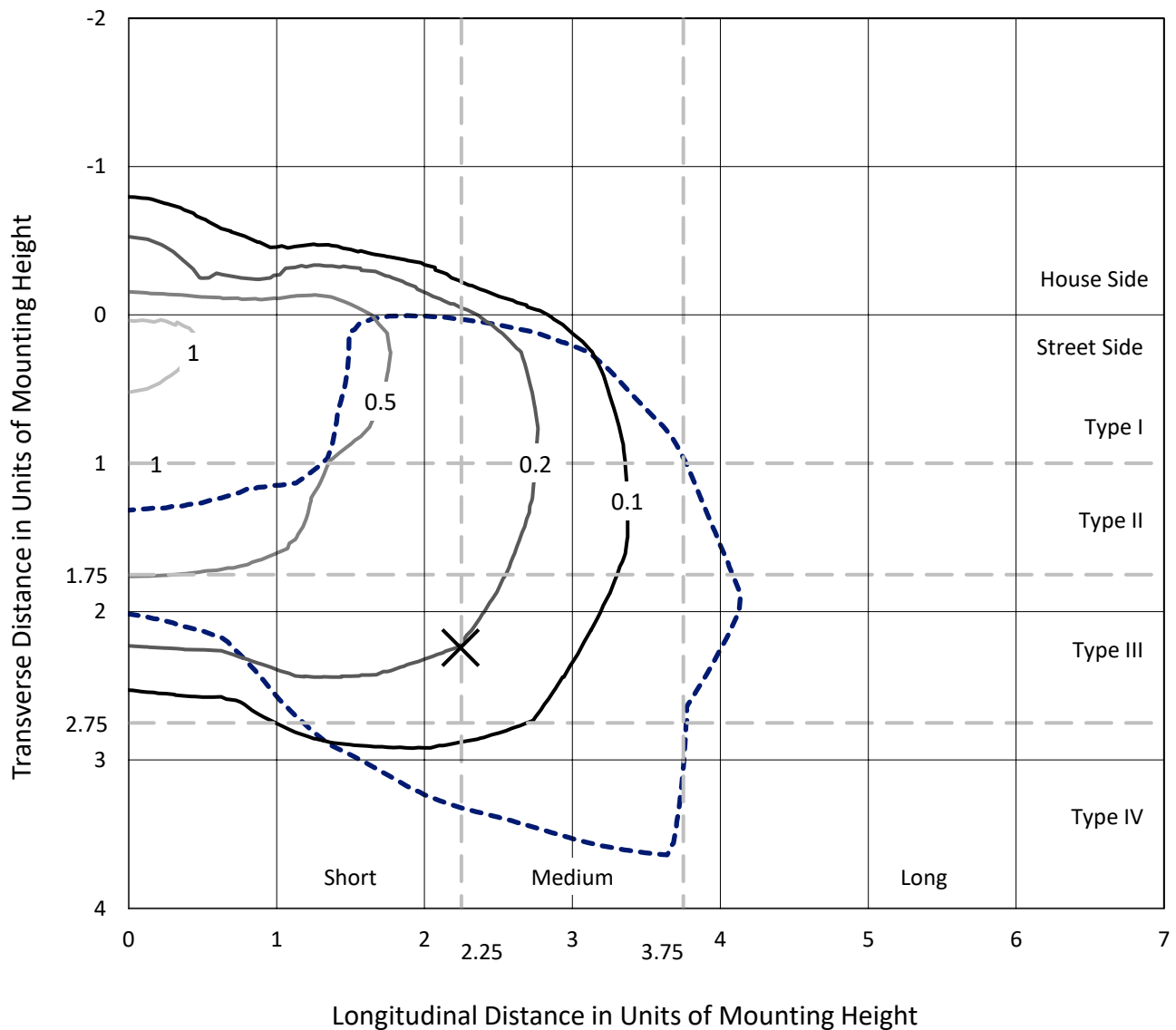
Lumens per Lamp: N/A
Luminaire Lumens: 5314.6 lumens
Efficiency: N/A
Efficacy: 97.7 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G2

Input Watts (W): 54.4
Input Voltage (V): 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



Iso-Footcandle Lines of Horizontal Illumination

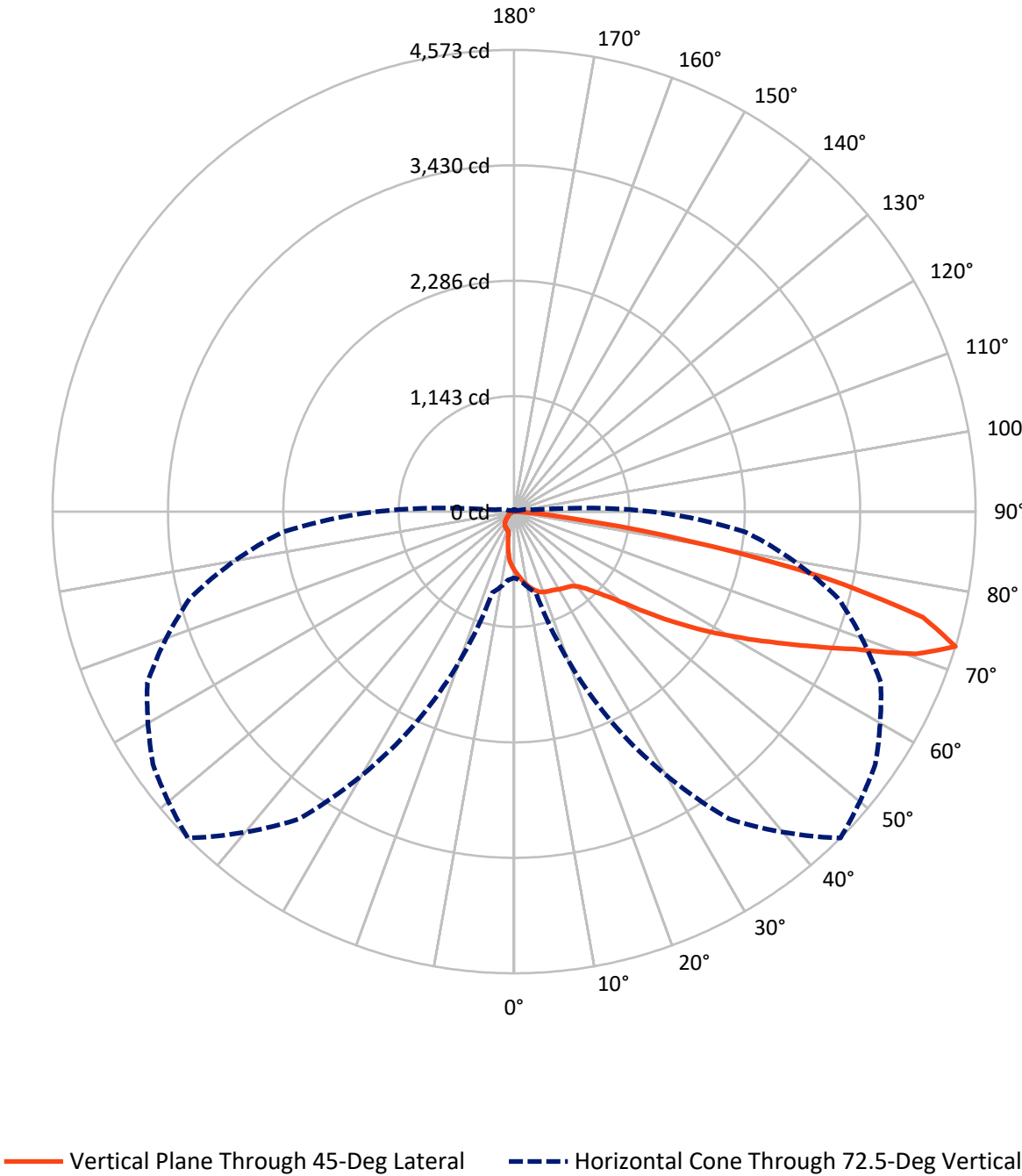
✕ Max cd
 --- 1/2 Max cd



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	558.4	0.0	558.4
	% Fixture	10.5	0.0	10.5
Street Side	Lumens	4756.2	0.0	4756.2
	% Fixture	89.5	0.0	89.5
Total	Lumens	5314.6	0.0	5314.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	54.9	1.0
10°-20°	160.3	3.0
20°-30°	263.3	5.0
30°-40°	373.4	7.0
40°-50°	617.2	11.6
50°-60°	1108.7	20.9
60°-70°	1539.5	29.0
70°-80°	1116.7	21.0
80°-90°	80.7	1.5
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°	5314.6	100.0
0°-180°	5314.6	100.0

Coefficient of Utilization



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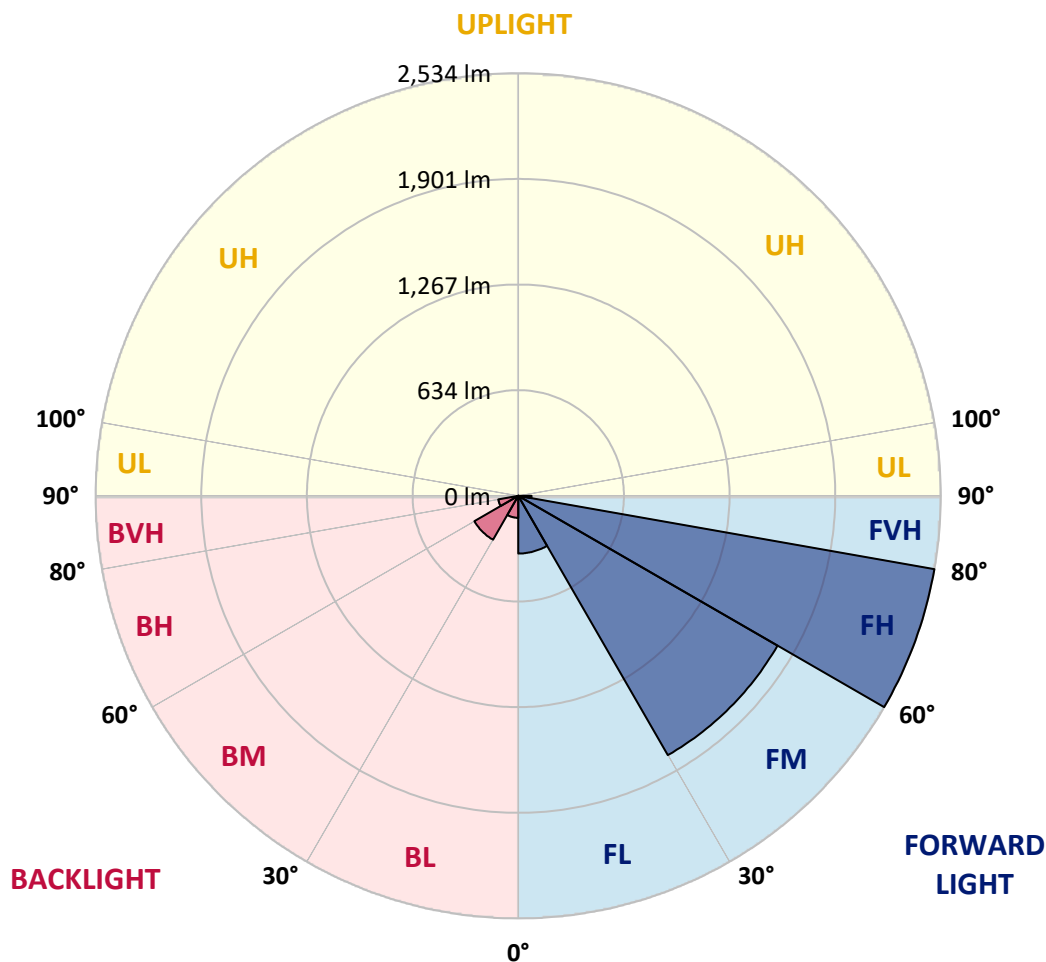
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	346.2	6.5			
FM	(30°-60°)	1795.6	33.8			
FH	(60°-80°)	2534.4	47.7			G2/5000
FVH	(80°-90°)	80.1	1.5			G1/100
BL	(0°-30°)	132.3	2.5	B1/500		
BM	(30°-60°)	303.7	5.7	B1/1000		
BH	(60°-80°)	121.8	2.3	B1/500		G1/500
BVH	(80°-90°)	0.7	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°	35°	45°	46°	55°	65°	75°	85°
0°	582.2	582.2	582.2	582.2	582.2	582.2	582.2	582.2	582.2	582.2	582.2
2.5°	635.9	637.0	636.3	631.9	624.6	620.6	618.5	611.2	606.5	598.2	589.5
5°	694.3	698.6	696.2	687.5	673.6	663.9	660.9	646.1	632.6	617.0	598.9
7.5°	756.3	758.5	753.8	742.6	724.1	707.4	704.8	684.2	662.8	638.8	614.2
10°	810.1	812.6	805.3	789.0	767.9	747.3	743.6	720.8	695.4	666.0	634.5
12.5°	855.1	857.5	848.1	828.5	805.3	783.9	780.3	756.3	728.5	695.8	656.6
15°	889.1	893.8	881.2	860.1	835.1	813.6	811.9	788.2	761.1	724.8	683.1
17.5°	909.1	913.8	901.8	876.4	855.1	836.9	834.8	815.1	789.8	754.9	708.8
20°	912.4	916.7	903.9	881.9	864.1	849.6	848.5	834.4	815.8	782.5	736.8
22.5°	902.5	907.9	896.4	878.6	866.2	858.6	857.2	849.2	838.7	810.4	762.9
25°	892.4	896.8	888.1	872.5	865.9	865.2	866.2	864.8	862.6	838.7	793.3
27.5°	891.6	896.4	886.6	871.7	868.1	875.7	876.8	883.7	885.5	864.5	822.8
30°	897.8	901.1	891.6	876.1	874.2	891.6	892.1	904.4	907.2	886.2	851.8
32.5°	911.2	914.9	905.5	882.6	880.1	904.4	905.5	921.8	926.5	909.5	882.2
35°	942.8	947.2	936.2	900.8	891.6	916.4	919.6	938.8	948.2	934.1	913.8
37.5°	1021.5	1008.8	993.9	937.4	918.1	935.2	940.6	963.1	979.8	963.5	951.5
40°	1217.1	1177.1	1130.7	999.8	964.6	975.5	979.8	1002.3	1025.2	1009.2	1003.4
42.5°	1510.5	1463.4	1388.7	1143.4	1034.6	1040.1	1043.2	1062.9	1095.2	1082.5	1083.9
45°	1772.1	1755.0	1678.8	1388.7	1165.5	1138.7	1142.7	1152.8	1200.4	1195.7	1205.1
47.5°	1973.0	1963.3	1904.4	1670.1	1386.8	1259.5	1270.8	1275.5	1344.0	1360.7	1386.1
50°	2127.6	2124.0	2071.3	1920.4	1676.0	1437.7	1441.6	1431.4	1534.1	1575.4	1623.7
52.5°	2273.4	2285.8	2246.9	2153.0	1984.6	1670.9	1670.1	1622.3	1760.8	1823.3	1905.6
55°	2405.1	2409.5	2413.5	2390.2	2295.2	1936.4	1929.6	1851.2	2023.9	2088.4	2177.6
57.5°	2528.8	2530.6	2566.2	2613.6	2618.4	2221.6	2208.9	2114.9	2311.2	2357.2	2412.0
60°	2611.9	2620.2	2695.3	2827.4	2885.1	2515.8	2508.9	2413.1	2603.5	2624.9	2614.8
62.5°	2492.2	2542.9	2732.3	2994.2	3136.8	2841.8	2838.6	2748.6	2911.1	2893.8	2806.7
65°	2017.3	2103.3	2436.3	3107.1	3383.8	3206.1	3210.8	3115.0	3227.1	3170.5	2962.7
67.5°	1411.1	1501.8	1895.7	3116.1	3659.9	3633.7	3661.0	3510.8	3562.7	3435.7	2999.7
70°	975.8	1022.6	1279.1	2920.9	3875.0	4222.9	4222.2	3996.9	3896.4	3556.4	2811.1
72.5°	656.2	680.5	830.8	2317.3	3716.9	4572.9	4551.9	4368.3	4008.9	3326.1	2296.6
75°	276.8	294.6	384.5	1302.3	2940.5	4183.7	4126.8	3860.5	3562.0	2619.1	1432.8
77.5°	87.7	95.4	151.6	466.2	1619.7	3144.8	3084.5	2410.9	2387.3	1313.9	523.8
80°	41.7	48.6	85.3	187.2	637.3	1710.4	1702.1	1093.7	1026.9	354.8	105.2
82.5°	18.1	21.4	47.2	100.1	285.2	610.2	622.5	372.2	308.0	134.6	32.3
85°	5.8	7.6	21.7	46.0	120.4	151.6	149.9	88.6	124.0	73.3	11.3
87.5°	0.0	0.0	7.3	10.6	12.3	8.7	9.8	7.6	34.4	20.3	4.0
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°	582.2	582.2	582.2	582.2	582.2	582.2	582.2	582.2	582.2	582.2	582.2
2.5°	585.2	579.3	569.2	559.8	551.3	543.0	538.0	530.7	530.0	530.0	531.8
5°	589.2	579.7	561.6	542.3	520.2	499.2	478.2	457.8	451.3	446.6	448.7
7.5°	600.8	585.9	557.2	520.6	478.5	432.4	400.2	365.3	351.9	344.6	345.7
10°	617.5	597.1	553.6	489.3	421.2	358.4	312.3	274.6	260.1	253.9	253.9
12.5°	635.9	610.9	547.0	450.6	358.4	283.3	238.3	220.9	218.7	218.7	218.7
15°	658.0	627.6	535.8	404.9	292.7	224.2	208.2	209.0	211.2	212.6	212.6
17.5°	680.9	645.3	518.0	353.7	234.7	201.7	202.0	203.2	205.0	206.4	206.4
20°	705.6	663.2	494.5	299.3	201.3	195.2	196.3	197.3	198.7	199.6	199.9
22.5°	732.1	679.8	466.5	246.0	190.0	189.7	190.0	191.2	193.0	193.0	193.7
25°	760.3	698.3	434.6	207.2	184.3	184.3	185.0	185.7	187.2	187.2	187.6
27.5°	789.4	715.3	400.9	186.9	179.2	178.9	178.9	179.9	180.6	181.0	181.4
30°	821.3	735.3	367.2	182.4	175.2	173.4	172.3	173.0	173.7	174.1	174.9
32.5°	853.9	754.5	337.0	184.3	171.2	168.0	164.3	163.6	163.6	165.0	166.2
35°	890.2	775.6	313.8	190.4	169.0	160.0	154.2	150.9	151.3	153.4	154.6
37.5°	933.8	800.9	296.7	195.9	167.6	150.9	141.4	137.5	135.0	137.5	136.7
40°	990.7	838.3	284.4	200.3	165.7	140.4	127.7	121.2	116.4	117.9	117.2
42.5°	1074.5	897.1	279.7	200.6	161.7	128.0	113.6	104.9	98.0	98.3	96.9
45°	1192.1	989.9	304.0	195.9	153.1	114.6	98.7	87.0	82.7	81.6	80.2
47.5°	1353.1	1125.2	360.2	186.1	140.4	101.6	84.2	74.4	71.1	69.3	68.2
50°	1569.0	1299.1	422.6	175.2	127.7	89.3	72.2	66.0	63.9	62.0	61.7
52.5°	1819.3	1475.4	473.8	164.3	115.0	78.3	64.6	61.0	59.1	57.7	57.3
55°	2048.9	1596.8	470.9	152.7	102.7	69.7	59.1	57.0	54.7	53.3	52.6
57.5°	2191.8	1614.0	388.2	140.0	88.6	62.7	54.0	52.6	50.0	48.3	47.9
60°	2257.5	1516.7	272.0	123.3	74.4	56.3	48.6	47.9	44.6	42.1	41.3
62.5°	2269.5	1336.1	181.4	102.7	62.0	50.0	43.2	42.1	37.7	33.4	31.2
65°	2220.8	1077.8	125.6	80.2	53.0	43.6	37.0	34.8	30.1	25.7	24.3
67.5°	2067.0	756.8	87.4	57.7	45.0	34.4	29.4	28.7	25.0	21.4	20.3
70°	1785.1	431.3	58.4	43.2	35.6	23.6	23.3	24.0	20.3	17.4	16.0
72.5°	1368.7	197.3	36.3	31.6	24.3	16.0	18.4	18.9	15.6	13.0	11.6
75°	805.6	84.6	22.9	20.3	12.3	10.6	13.4	13.7	10.6	8.3	7.3
77.5°	274.3	31.9	14.6	12.0	6.1	5.8	8.7	8.7	5.8	3.3	2.6
80°	62.4	12.0	7.3	4.7	2.9	2.6	2.9	2.6	1.4	0.4	0.0
82.5°	17.7	4.7	2.9	1.8	1.1	1.1	0.4	0.0	0.0	0.0	0.0
85°	5.1	2.2	0.7	0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	2.2	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)