

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: P960299

Luminaire Tested: **NAV-SB1C-727-U-T4FT-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P960299
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-25)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB1C-727-U-T4FT-HSS
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(1) 70 CRI, 2700K, 615mA LIGHTSQUARE WITH 26 LEDS AND TYPE IV FORWARD
THROW OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5392.5 lumens
Efficiency: N/A
Efficacy: 99.1 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

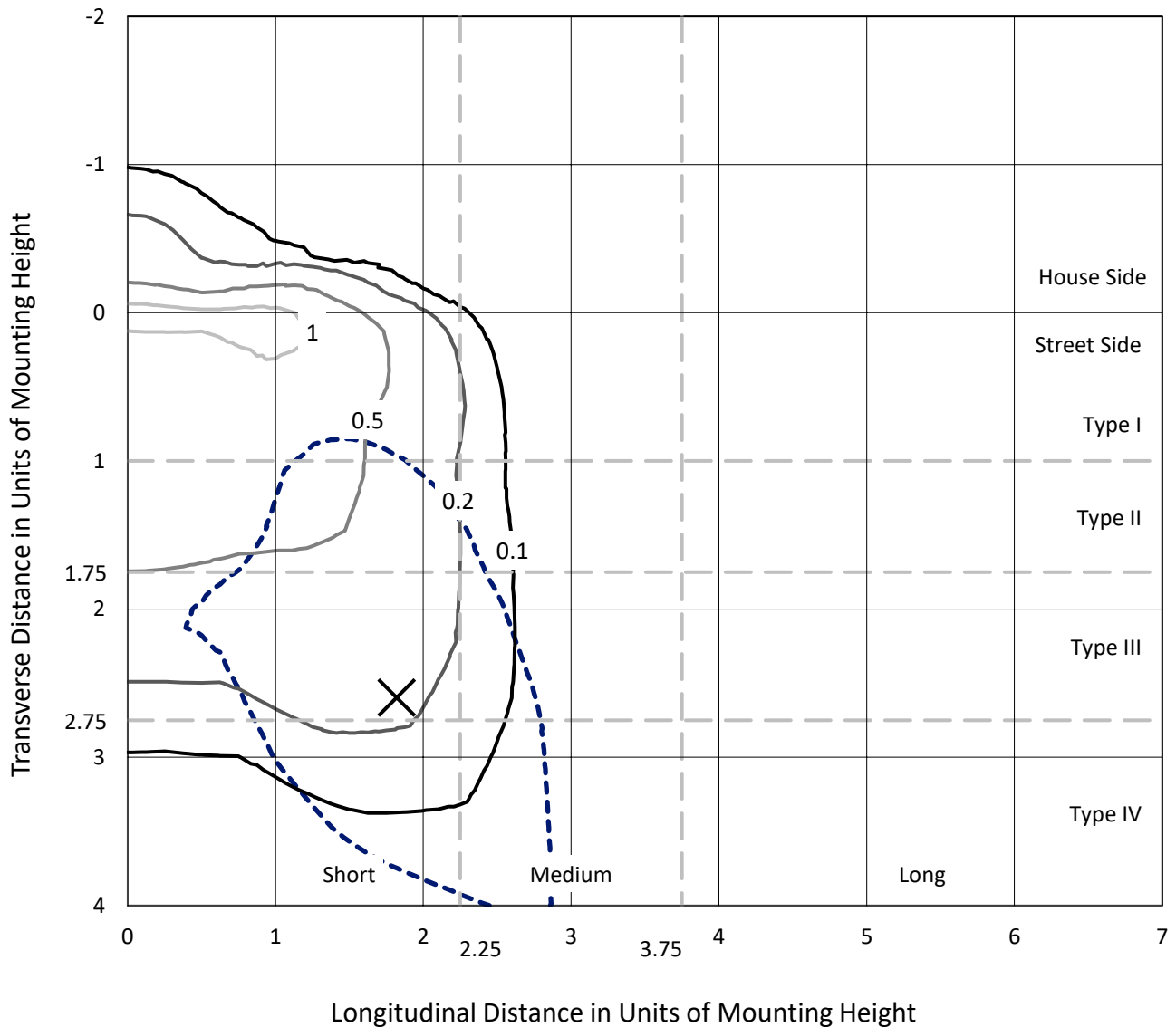
Input Watts (W): 54.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

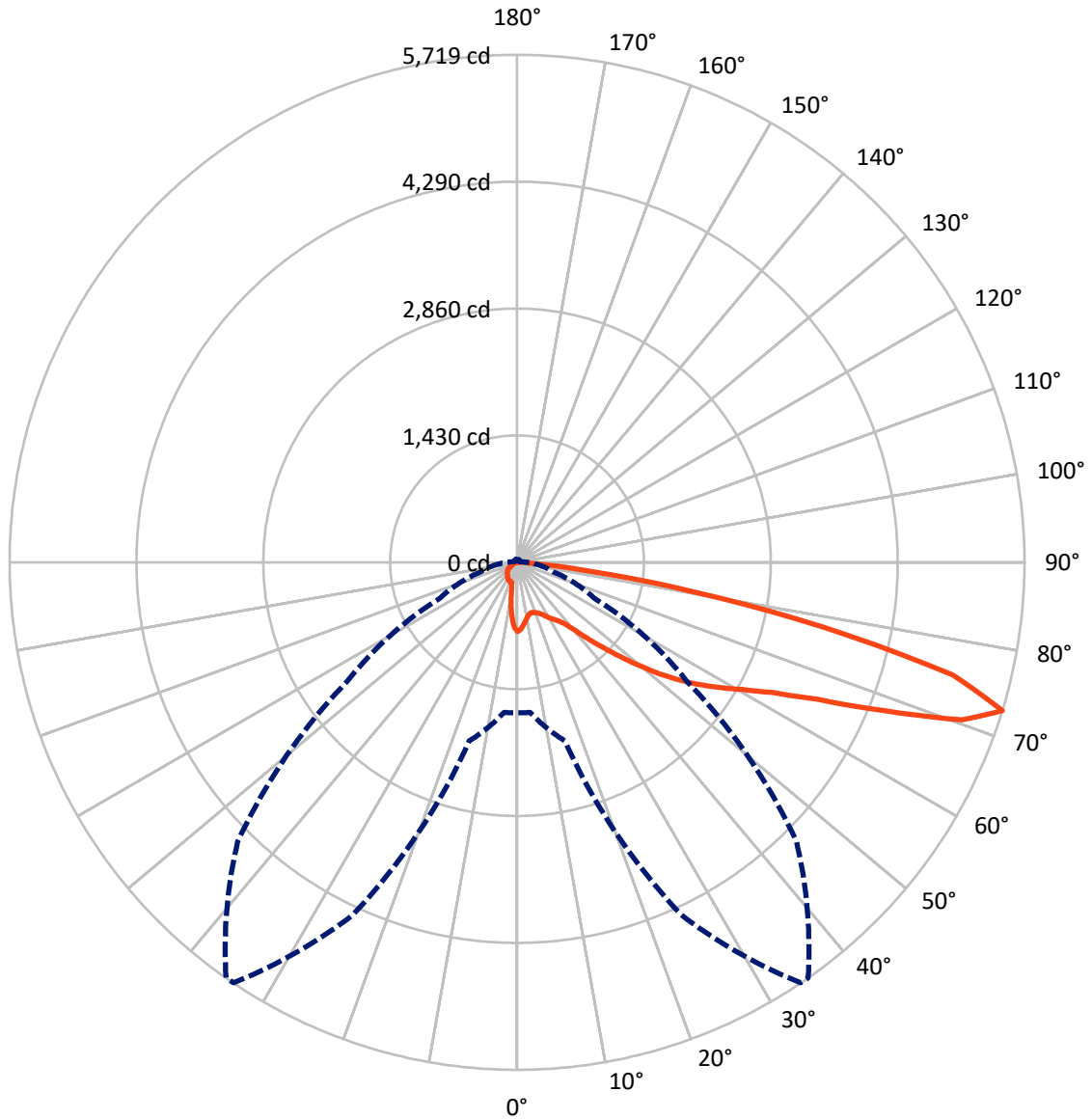
× Max cd
 - - - 1/2 Max cd



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



— Vertical Plane Through 35-Deg Lateral - - - Horizontal Cone Through 72.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	606.9	0.0	606.9
	% Fixture	11.3	0.0	11.3
Street Side	Lumens	4785.6	0.0	4785.6
	% Fixture	88.7	0.0	88.7
Total	Lumens	5392.5	0.0	5392.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	64.2	1.2
10°-20°	150.2	2.8
20°-30°	244.1	4.5
30°-40°	407.2	7.6
40°-50°	770.5	14.3
50°-60°	1224.3	22.7
60°-70°	1514.5	28.1
70°-80°	941.4	17.5
80°-90°	76.1	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°	5392.5	100.0
0°-180°	5392.5	100.0

Coefficient of Utilization

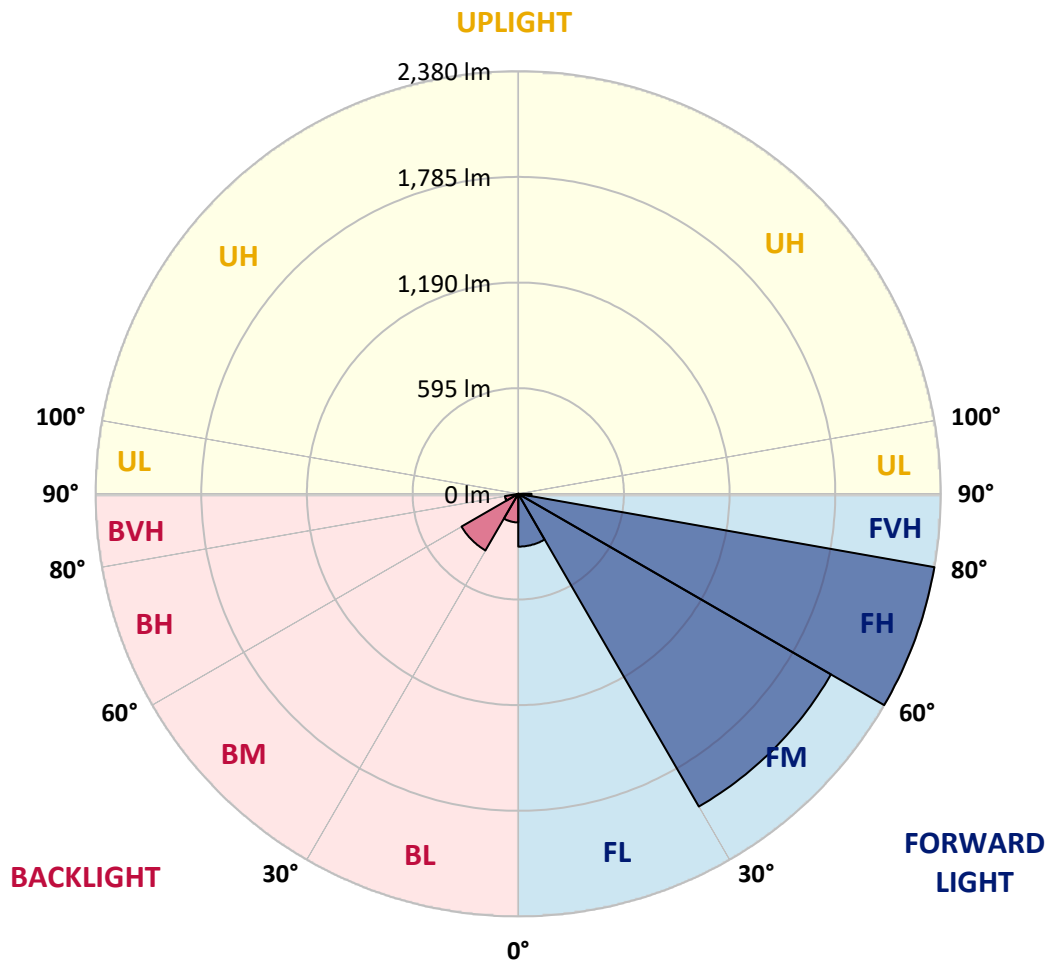


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	297.3	5.5			
FM (30°-60°)	2033.5	37.7			
FH (60°-80°)	2379.8	44.1			G2/5000
FVH (80°-90°)	75.0	1.4			G1/100
BL (0°-30°)	161.3	3.0	B1/500		
BM (30°-60°)	368.4	6.8	B1/1000		
BH (60°-80°)	76.2	1.4	B0/110		G0/110
BVH (80°-90°)	1.0	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°	781.6	781.6	781.6	781.6	781.6	781.6	781.6	781.6	781.6	781.6	781.6
2.5°	746.8	753.1	754.3	756.2	756.2	758.6	762.6	768.1	777.3	782.0	785.2
5°	688.3	693.0	698.9	703.8	712.8	714.0	729.4	744.5	765.4	781.2	792.2
7.5°	629.5	635.0	642.9	654.4	666.1	669.7	693.0	718.3	751.5	781.2	799.7
10°	587.9	588.3	595.4	606.9	625.9	630.3	658.7	694.6	736.2	776.4	806.9
12.5°	564.7	567.4	570.5	579.2	597.5	600.2	630.6	672.9	720.7	773.7	815.2
15°	564.7	566.6	568.6	573.0	587.5	589.9	616.7	659.1	712.8	774.8	828.6
17.5°	570.5	573.7	572.2	577.3	592.7	594.3	618.0	655.1	712.4	782.4	849.1
20°	584.8	587.1	584.0	587.1	602.6	605.8	630.3	662.7	719.1	795.4	874.8
22.5°	607.3	608.5	601.0	603.3	619.2	623.1	651.6	684.0	735.3	816.3	909.2
25°	635.8	638.2	626.7	629.5	644.4	649.2	682.0	716.0	761.0	845.2	953.0
27.5°	668.5	669.7	659.9	659.5	678.9	685.5	718.7	755.5	795.4	881.5	1008.4
30°	706.1	709.6	700.2	698.5	723.0	728.6	761.4	804.1	845.9	936.0	1087.0
32.5°	735.7	738.5	733.0	736.9	761.8	766.2	813.1	872.8	925.4	1013.5	1194.0
35°	778.4	780.0	767.3	774.5	802.9	814.0	883.9	969.2	1025.3	1110.7	1333.9
37.5°	932.9	932.9	879.1	844.0	871.2	881.1	980.7	1090.5	1148.6	1241.1	1510.1
40°	1146.7	1143.1	1064.5	992.5	989.0	1008.4	1118.6	1243.4	1307.9	1397.6	1708.6
42.5°	1374.6	1369.1	1262.0	1190.9	1179.1	1185.7	1277.9	1431.9	1497.5	1588.4	1921.9
45°	1577.0	1575.3	1477.3	1381.8	1360.4	1381.8	1476.6	1652.4	1699.4	1795.1	2134.9
47.5°	1746.5	1746.5	1675.0	1612.5	1601.5	1614.1	1745.7	1897.0	1892.7	2015.2	2342.3
50°	1941.7	1940.0	1872.1	1845.2	1856.7	1874.5	2055.4	2154.7	2092.5	2231.3	2527.6
52.5°	2078.4	2087.8	2064.6	2060.1	2118.7	2149.5	2370.0	2406.7	2271.6	2436.3	2666.3
55°	2186.6	2197.7	2224.6	2255.0	2367.5	2407.9	2674.6	2645.7	2421.4	2614.2	2746.1
57.5°	2340.0	2324.1	2365.6	2425.7	2607.8	2656.4	2969.7	2871.3	2541.8	2758.4	2754.8
60°	2526.0	2528.4	2535.5	2611.4	2847.7	2910.1	3260.5	3084.7	2619.3	2846.8	2658.4
62.5°	2749.7	2753.3	2767.8	2884.5	3169.7	3228.5	3570.4	3259.4	2654.9	2822.0	2409.5
65°	2734.3	2749.3	2912.4	3311.2	3659.2	3717.4	3931.9	3381.9	2601.1	2594.4	1961.7
67.5°	2490.9	2515.4	2788.4	3820.9	4397.4	4462.1	4368.9	3406.0	2369.2	2017.5	1279.8
70°	2171.6	2180.3	2508.7	4279.2	5252.0	5317.6	4760.1	3140.8	1797.8	1125.3	573.3
72.5°	1695.9	1697.8	2083.1	4385.5	5715.9	5719.4	4453.0	2331.7	966.9	432.2	199.2
75°	1211.4	1199.6	1395.2	3556.5	5028.8	5069.0	3338.4	1093.7	369.4	204.3	99.2
77.5°	649.5	662.7	789.5	2109.1	3473.9	3542.7	1821.5	315.3	188.1	139.1	65.6
80°	200.7	211.8	323.6	965.7	1967.7	2009.2	675.3	140.2	131.2	99.2	43.0
82.5°	63.2	65.6	151.0	405.8	816.7	835.7	195.6	79.4	89.7	65.6	25.3
85°	18.1	18.6	67.1	151.3	201.9	205.8	54.9	30.9	51.4	40.7	13.0
87.5°	1.9	6.4	25.3	25.3	17.7	17.4	5.9	6.8	14.7	5.1	2.4
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°	781.6	781.6	781.6	781.6	781.6	781.6	781.6	781.6	781.6	781.6	781.6
2.5°	783.1	783.5	778.4	769.7	760.2	752.3	742.4	734.5	729.0	727.4	730.2
5°	788.6	785.9	771.3	744.8	713.2	685.9	655.5	631.4	615.6	608.8	611.2
7.5°	796.9	789.0	757.1	704.9	644.4	590.7	536.2	493.9	467.0	453.6	455.6
10°	804.1	788.2	733.4	647.2	554.7	473.3	399.9	348.9	320.4	307.0	307.4
12.5°	810.8	787.9	702.5	578.8	453.6	354.0	285.7	260.3	252.5	249.7	249.0
15°	823.5	789.0	663.8	500.6	352.8	267.5	242.6	242.2	243.7	243.0	242.6
17.5°	840.8	790.3	619.9	417.7	272.2	235.9	234.7	238.2	240.7	239.4	239.0
20°	863.4	795.0	573.3	335.5	233.9	228.0	230.7	233.9	235.9	233.9	233.5
22.5°	894.9	803.3	522.3	269.5	221.7	223.2	225.6	229.2	231.1	228.4	228.0
25°	933.7	816.3	472.2	234.3	215.8	217.7	221.3	225.2	227.6	224.8	224.5
27.5°	983.9	837.2	426.0	226.4	209.8	211.0	216.2	222.0	225.2	221.7	221.7
30°	1056.6	871.7	386.0	230.0	206.2	203.5	210.6	218.9	222.4	219.2	218.9
32.5°	1153.0	920.2	361.5	235.5	204.7	194.7	201.5	212.2	218.1	216.2	216.2
35°	1279.4	994.1	352.1	241.8	203.5	185.7	190.4	201.9	212.2	214.1	214.1
37.5°	1432.7	1096.9	354.9	244.6	200.0	178.2	180.6	190.4	203.9	210.2	211.8
40°	1607.0	1216.6	370.6	241.8	196.0	171.9	172.3	179.8	191.7	201.1	204.3
42.5°	1786.8	1356.5	399.9	231.5	192.4	166.4	165.1	170.3	178.2	184.9	187.7
45°	1957.9	1500.3	428.8	217.3	188.1	160.8	158.1	160.0	161.6	164.4	165.9
47.5°	2107.2	1601.5	420.5	204.3	182.1	154.5	149.8	148.9	144.2	143.8	143.4
50°	2210.3	1623.6	373.4	191.3	173.4	147.4	139.9	135.1	126.8	122.9	123.3
52.5°	2243.1	1536.3	305.0	178.2	159.3	137.9	127.2	119.7	109.5	105.9	105.5
55°	2199.6	1365.2	243.7	162.4	139.5	125.3	113.4	103.5	95.2	90.9	90.9
57.5°	2093.4	1147.5	192.8	143.8	118.5	111.0	99.2	89.3	82.2	77.8	77.1
60°	1917.2	911.1	152.5	121.7	101.2	95.6	83.3	77.1	70.7	65.6	64.4
62.5°	1649.6	650.4	119.7	96.5	84.6	78.2	71.1	66.4	58.8	51.8	50.5
65°	1287.3	397.9	92.5	70.7	68.0	64.8	60.5	56.1	47.0	39.9	38.7
67.5°	812.0	188.5	66.0	53.3	53.7	52.2	50.2	46.6	39.9	33.6	32.8
70°	357.6	91.2	43.5	40.7	39.9	39.9	41.5	40.3	34.0	28.1	26.9
72.5°	121.7	49.0	32.4	30.9	28.8	28.5	34.7	33.6	27.3	21.7	20.5
75°	63.7	32.8	23.7	22.1	17.4	20.9	27.7	26.0	19.4	14.2	13.0
77.5°	41.5	23.3	16.2	14.2	9.8	13.8	20.5	18.1	11.5	7.1	6.4
80°	26.0	15.4	9.5	6.8	4.7	7.5	11.1	7.9	4.3	1.5	1.2
82.5°	13.8	7.9	3.6	2.4	1.9	2.4	2.8	1.9	0.8	0.0	0.0
85°	5.5	2.8	1.2	0.8	0.4	0.0	0.8	0.4	0.0	0.0	0.0
87.5°	1.9	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)