

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: P971481

Luminaire Tested: **NAV-SB6D-750-U-T2R-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P971481
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-4)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB6D-750-U-T2R-HSS
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(6) 70 CRI, 5000K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II
ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 56657.9 lumens
Efficiency: N/A
Efficacy: 128.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B2 - U0 - G5

Input Watts (W): 440.1
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



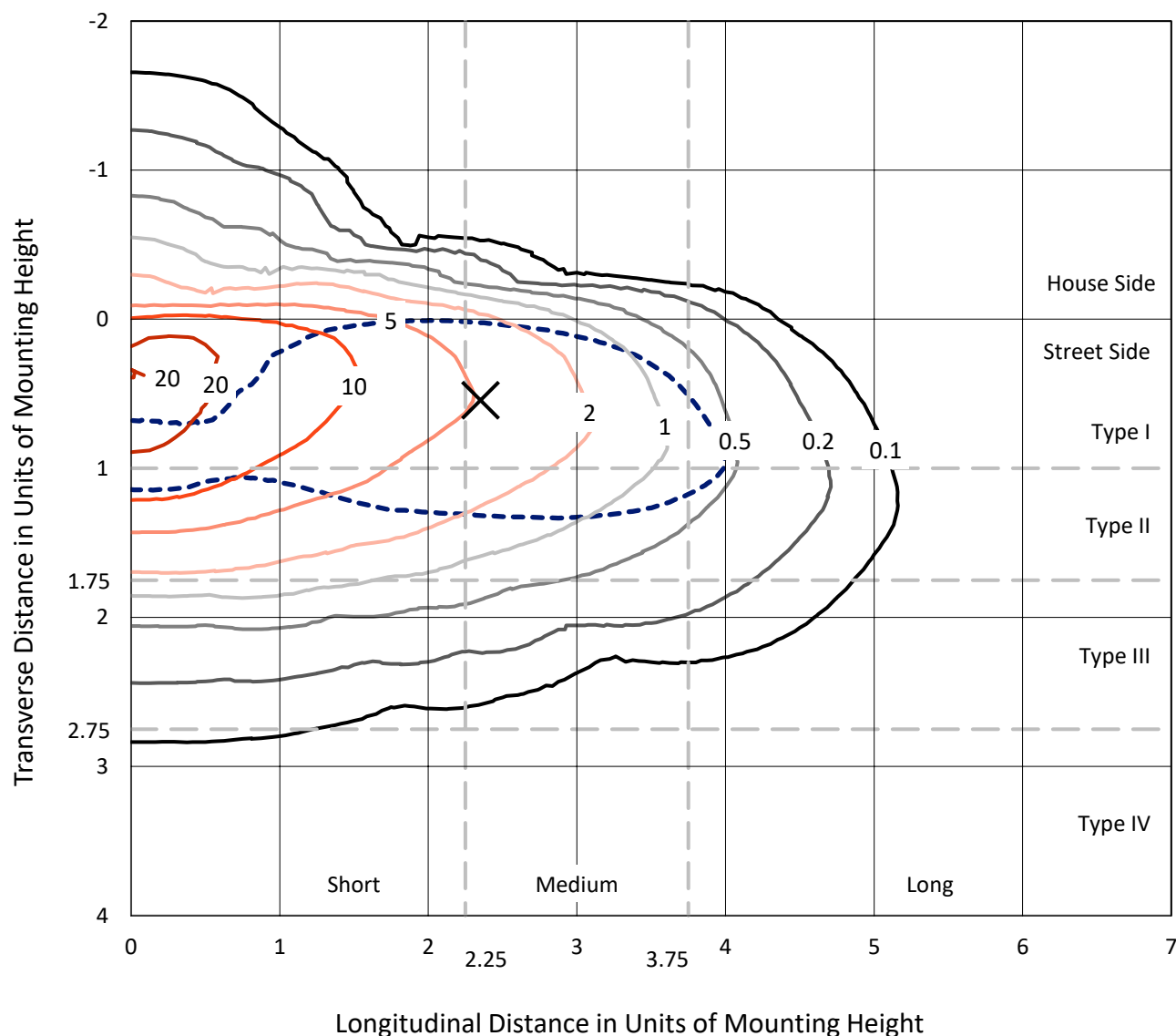
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

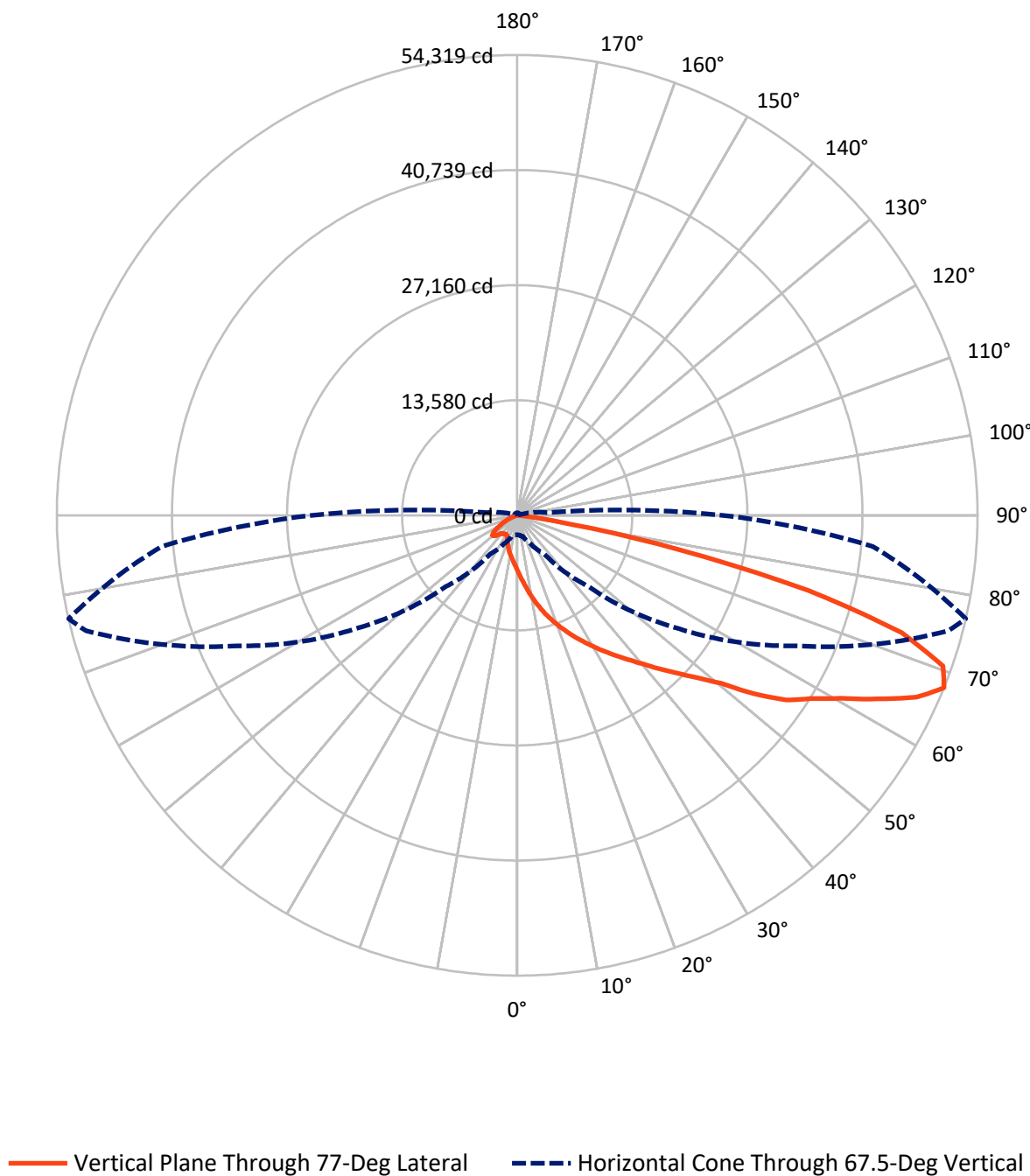
--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 24.4 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4168.4	0.0	4168.4
	% Fixture	7.4	0.0	7.4
Street Side	Lumens	52489.5	0.0	52489.5
	% Fixture	92.6	0.0	92.6
Total	Lumens	56657.9	0.0	56657.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	666.8	1.2
10°-20°	2335.2	4.1
20°-30°	4506.3	8.0
30°-40°	7823.3	13.8
40°-50°	11359.0	20.0
50°-60°	13044.4	23.0
60°-70°	11324.9	20.0
70°-80°	5334.2	9.4
80°-90°	263.8	0.5
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°	56657.9	100.0
0°-180°	56657.9	100.0

Coefficient of Utilization



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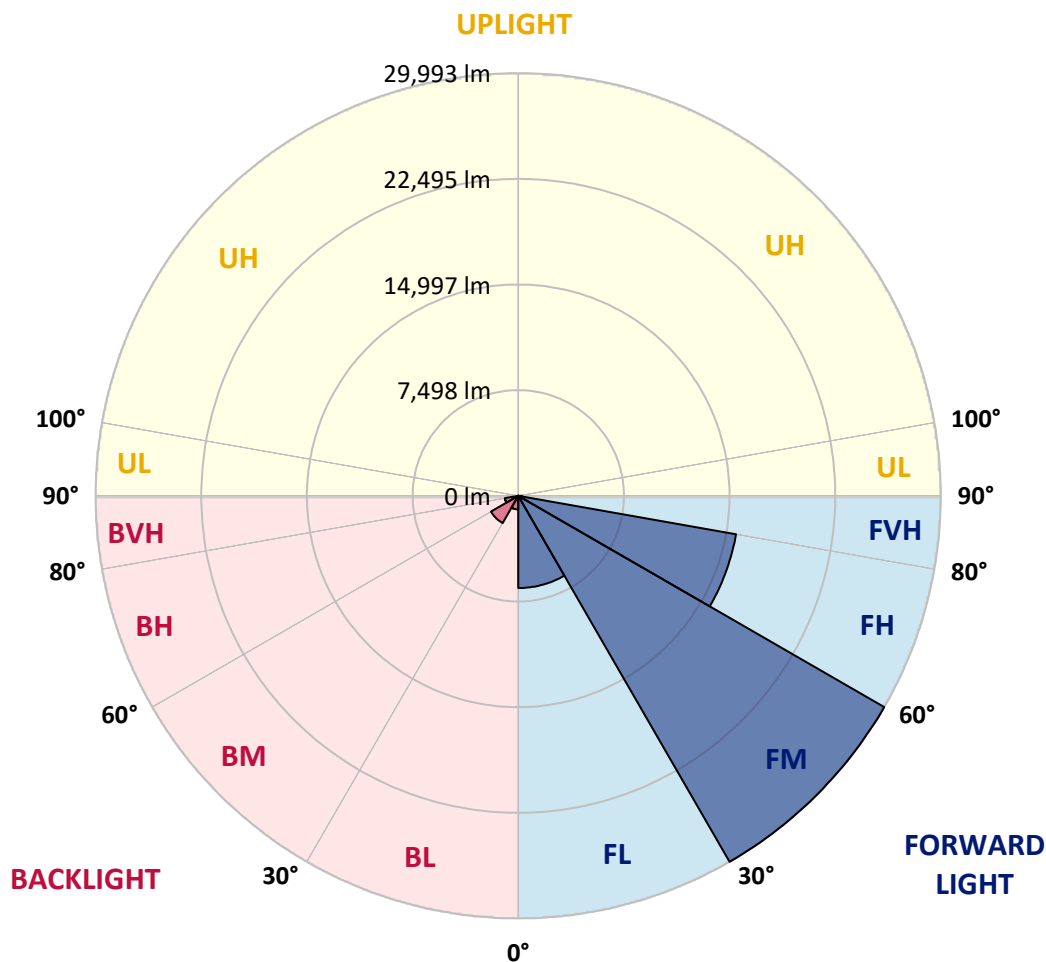
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	6543.4	11.5			
FM	(30°-60°)	29993.2	52.9			
FH	(60°-80°)	15694.1	27.7			G5
FVH	(80°-90°)	258.9	0.5			G3/500
BL	(0°-30°)	965.0	1.7	B2/1000		
BM	(30°-60°)	2233.5	3.9	B2/2500		
BH	(60°-80°)	965.0	1.7	B2/1000		G2/1000
BVH	(80°-90°)	4.9	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G5

Type II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°	85°
0°	6533.5	6533.5	6533.5	6533.5	6533.5	6533.5	6533.5	6533.5	6533.5	6533.5	6533.5
2.5°	9045.5	9101.9	9020.9	8866.1	8633.9	8482.6	8113.2	7764.9	7377.8	7254.7	6867.7
5°	11026.3	11075.6	10984.1	10815.3	10505.6	10210.1	9724.6	8996.3	8239.9	7997.2	7311.0
7.5°	12493.5	12521.6	12486.4	12331.7	12036.2	11701.9	11160.1	10298.1	9175.7	8908.4	7856.4
10°	13549.0	13640.5	13629.9	13570.1	13373.1	13102.2	12525.2	11543.6	10224.2	9879.4	8472.0
12.5°	14249.1	14351.1	14411.0	14544.6	14534.1	14361.7	13855.0	12817.2	11269.2	10864.5	9165.1
15°	14453.2	14562.3	14791.0	15100.6	15375.0	15462.9	15107.6	14066.2	12419.6	11902.4	9875.9
17.5°	14337.1	14506.0	14780.4	15269.4	15871.1	16268.6	16230.0	15272.9	13464.5	12873.5	10572.5
20°	14594.0	14755.8	14970.3	15382.0	16082.1	16803.4	17091.9	16427.0	14502.4	13883.2	11304.3
22.5°	16015.3	15987.1	16008.2	16075.2	16493.8	17208.0	17802.6	17475.4	15529.8	14896.5	12078.3
25°	18267.0	18140.3	17925.7	17563.4	17457.8	17802.6	18421.8	18404.3	16613.4	15934.4	12870.0
27.5°	20849.4	20828.3	20325.2	19452.7	18960.1	18826.5	19122.0	19308.4	17686.5	16961.7	13665.1
30°	23322.8	23379.1	22700.1	21729.1	20824.8	20300.6	20033.2	20166.9	18777.2	18070.0	14484.9
32.5°	25476.1	25535.8	24797.0	23660.6	22541.8	21908.5	21345.5	21014.9	19966.4	19195.9	15385.6
35°	27295.0	27354.8	26506.9	25250.9	24058.2	23484.7	22847.9	21943.6	21162.6	20444.9	16388.2
37.5°	28920.5	28902.8	27766.4	26499.8	25328.3	24874.4	24540.1	23087.1	22394.0	21700.9	17500.0
40°	29880.9	29954.8	28983.8	27587.1	26450.6	26119.9	26098.8	24505.0	23815.4	23143.4	18717.4
42.5°	30162.4	30292.5	29588.9	28442.0	27411.1	27052.2	27604.6	26039.0	25469.0	24814.6	20093.1
45°	29655.8	29782.4	29462.3	28667.1	28065.5	27833.3	28899.4	27629.2	27235.2	26587.8	21644.6
47.5°	28178.1	28336.4	28413.8	28244.9	28237.9	28473.6	30060.4	29303.9	29332.1	28670.7	23442.5
50°	25317.7	25585.1	26295.8	26894.0	27819.2	28980.2	31189.7	31119.4	31696.4	31126.4	25785.6
52.5°	20117.7	20497.6	22946.4	24582.4	26661.7	28885.2	32431.7	34032.6	35844.5	35010.6	29089.3
55°	16166.6	16166.6	18158.0	21218.9	24403.0	28259.0	32973.5	35925.4	38669.7	38472.7	31414.9
57.5°	13179.6	13337.9	14608.0	17313.6	21134.5	26767.3	33307.8	37114.5	40946.0	40801.8	33687.8
60°	8134.3	8475.6	10875.0	13545.5	17415.6	24111.0	33096.6	38317.9	43707.8	43824.0	36425.0
62.5°	4580.8	4707.5	5777.0	9745.7	13542.0	20539.9	31481.7	38989.9	47240.3	47732.8	39246.6
65°	3162.9	3226.3	3637.9	6065.5	9386.8	16353.1	28325.9	38571.2	50779.6	51775.3	41639.1
67.5°	2297.4	2329.1	2586.0	3704.8	5569.4	11856.7	23379.1	36460.2	52655.0	54319.1	42096.5
70°	1766.2	1787.3	1973.7	2434.7	3289.6	7318.1	16979.3	32262.8	51296.8	53284.7	39753.3
72.5°	1435.5	1456.6	1600.8	1801.3	2181.3	4327.5	10291.0	26200.8	45301.7	47447.9	33842.5
75°	1210.3	1238.4	1368.6	1498.8	1709.9	2779.5	4827.1	18245.9	34067.7	35475.0	23533.9
77.5°	672.0	619.2	1111.8	1242.0	1442.5	1759.1	2258.8	10737.9	19079.8	19470.3	10442.3
80°	418.7	432.8	883.1	999.2	1108.2	886.6	1034.4	4134.0	6614.4	6283.7	2023.0
82.5°	24.6	56.3	679.1	721.3	759.9	380.0	390.5	1403.8	1593.8	1463.6	358.9
85°	0.0	0.0	309.7	249.8	263.8	109.1	112.5	327.2	214.6	232.2	70.3
87.5°	0.0	0.0	0.0	7.1	0.0	10.6	21.1	28.2	10.6	14.0	24.6
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°	6533.5	6533.5	6533.5	6533.5	6533.5	6533.5	6533.5	6533.5	6533.5	6533.5	6533.5
2.5°	6621.4	6375.2	5875.6	5386.5	4989.0	4619.6	4355.6	4105.8	3979.2	3972.2	3965.1
5°	6822.0	6304.8	5305.6	4422.5	3711.8	3141.8	2772.4	2508.6	2374.8	2329.1	2322.0
7.5°	7103.5	6325.9	4806.0	3578.1	2740.7	2251.7	2040.6	1956.2	1928.0	1896.4	1889.3
10°	7458.8	6375.2	4359.2	2881.5	2160.2	1914.0	1829.5	1794.4	1773.2	1752.1	1745.1
12.5°	7856.4	6420.9	3915.9	2392.5	1899.8	1773.2	1713.4	1671.2	1643.1	1618.4	1611.4
15°	8243.4	6449.1	3455.0	2051.1	1766.2	1664.2	1600.8	1555.1	1516.4	1488.2	1484.7
17.5°	8626.9	6487.7	3022.2	1847.2	1657.1	1555.1	1491.8	1435.5	1403.8	1372.2	1368.6
20°	9052.6	6480.7	2614.1	1702.8	1548.1	1446.1	1379.1	1326.4	1294.8	1259.5	1256.0
22.5°	9446.6	6445.5	2255.2	1579.7	1435.5	1336.9	1263.1	1210.3	1178.6	1150.5	1147.0
25°	9900.5	6417.4	1956.2	1467.1	1329.9	1231.4	1150.5	1101.3	1066.0	1041.4	1037.9
27.5°	10336.8	6375.2	1738.1	1365.1	1227.8	1132.9	1055.4	999.2	967.5	950.0	950.0
30°	10766.0	6364.6	1657.1	1266.6	1136.4	1041.4	964.0	911.2	886.6	879.6	876.1
32.5°	11283.2	6392.7	1692.3	1231.4	1052.0	956.9	883.1	844.4	819.8	819.8	819.8
35°	11835.6	6385.7	1745.1	1263.1	995.7	872.6	816.2	791.6	767.0	767.0	767.0
37.5°	12528.7	6396.3	1787.3	1315.9	974.6	802.2	770.5	738.8	724.8	724.8	724.8
40°	13563.1	6744.6	1766.2	1361.6	967.5	753.0	689.6	679.1	668.5	668.5	668.5
42.5°	14829.6	7501.1	1794.4	1365.1	964.0	717.7	633.2	654.4	629.8	626.3	622.8
45°	16215.8	8327.8	1973.7	1291.2	960.5	700.2	605.2	629.8	591.1	591.1	591.1
47.5°	17591.6	9147.6	2156.7	1185.6	950.0	696.6	580.6	566.4	555.9	559.4	559.4
50°	19487.9	9816.0	2227.1	1041.4	925.3	689.6	534.7	538.3	531.3	538.3	538.3
52.5°	21553.1	9956.7	2142.7	879.6	855.0	668.5	503.1	517.2	513.6	520.7	520.7
55°	22840.8	9805.6	1769.7	731.8	745.9	584.0	471.5	499.6	499.6	499.6	499.6
57.5°	24170.7	9161.7	1256.0	594.6	619.2	478.5	443.3	482.1	478.5	475.0	475.0
60°	25127.7	8120.3	826.8	489.0	492.5	394.0	411.6	453.9	450.4	432.8	432.8
62.5°	25841.9	6969.8	531.3	415.1	376.5	355.4	376.5	411.6	397.6	358.9	351.8
65°	25761.0	5375.9	408.2	355.4	309.7	309.7	327.2	358.9	316.6	253.3	246.3
67.5°	24258.7	3637.9	337.7	299.1	260.3	256.9	270.9	299.1	270.9	214.6	207.6
70°	21574.2	2378.4	270.9	232.2	207.6	190.0	218.1	256.9	228.7	172.4	165.3
72.5°	17510.6	1449.6	204.1	168.9	151.3	123.1	172.4	211.0	183.0	126.7	119.6
75°	11328.9	738.8	140.7	109.1	80.9	73.9	126.7	158.4	126.7	77.4	66.8
77.5°	4334.5	309.7	77.4	49.3	42.2	35.2	70.3	95.0	52.8	17.6	14.0
80°	833.8	130.2	38.7	24.6	21.1	14.0	10.6	7.1	0.0	0.0	0.0
82.5°	144.2	42.2	14.0	7.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	49.3	7.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	17.6	0.0	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)