

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: P885526

Luminaire Tested: **NAV-SB6D-835-U-T2-HSS**

Issue Date: 10/7/2024

**Test Information**

Test Method: LM-79-08  
Report Number: P885526  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-4)  
Test Lab: INNOVATION CENTER  
Issue Date: 10/7/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: LUMARK  
Catalog Number: NAV-SB6D-835-U-T2-HSS  
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE  
(6) 80 CRI, 3500K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II  
OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

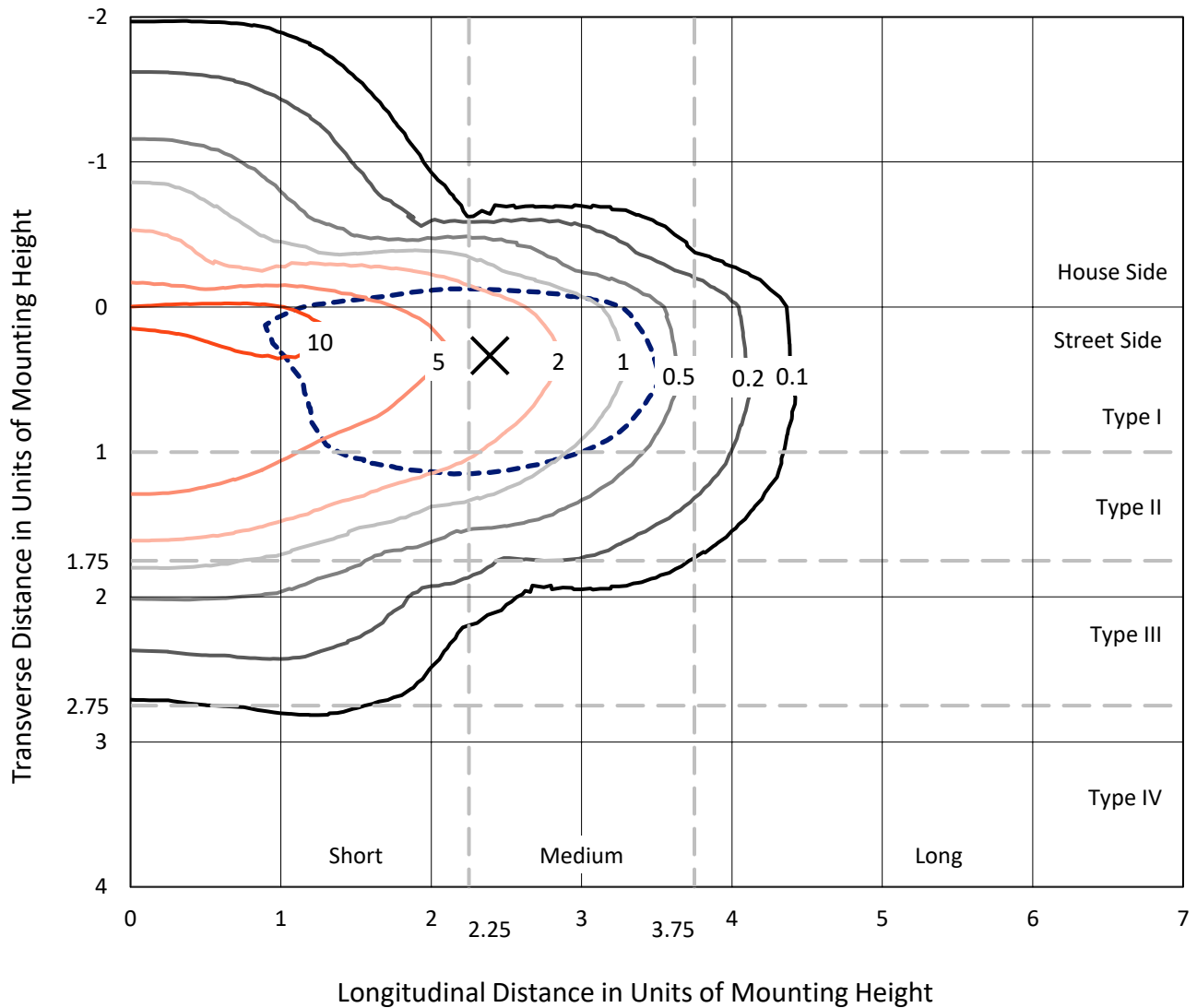
Lumens per Lamp: N/A  
Luminaire Lumens: 38055 lumens  
Efficiency: N/A  
Efficacy: 86.5 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1.5' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B3 - U0 - G4  
  
Input Watts (W): 440.1  
Input Voltage (V): 120.0  
Input Current (Ain): 3.68  
Voltage Rise (V): NR  
Power Factor: 0.998  
Total Harmonic Distortion (THDi): 2.542  
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

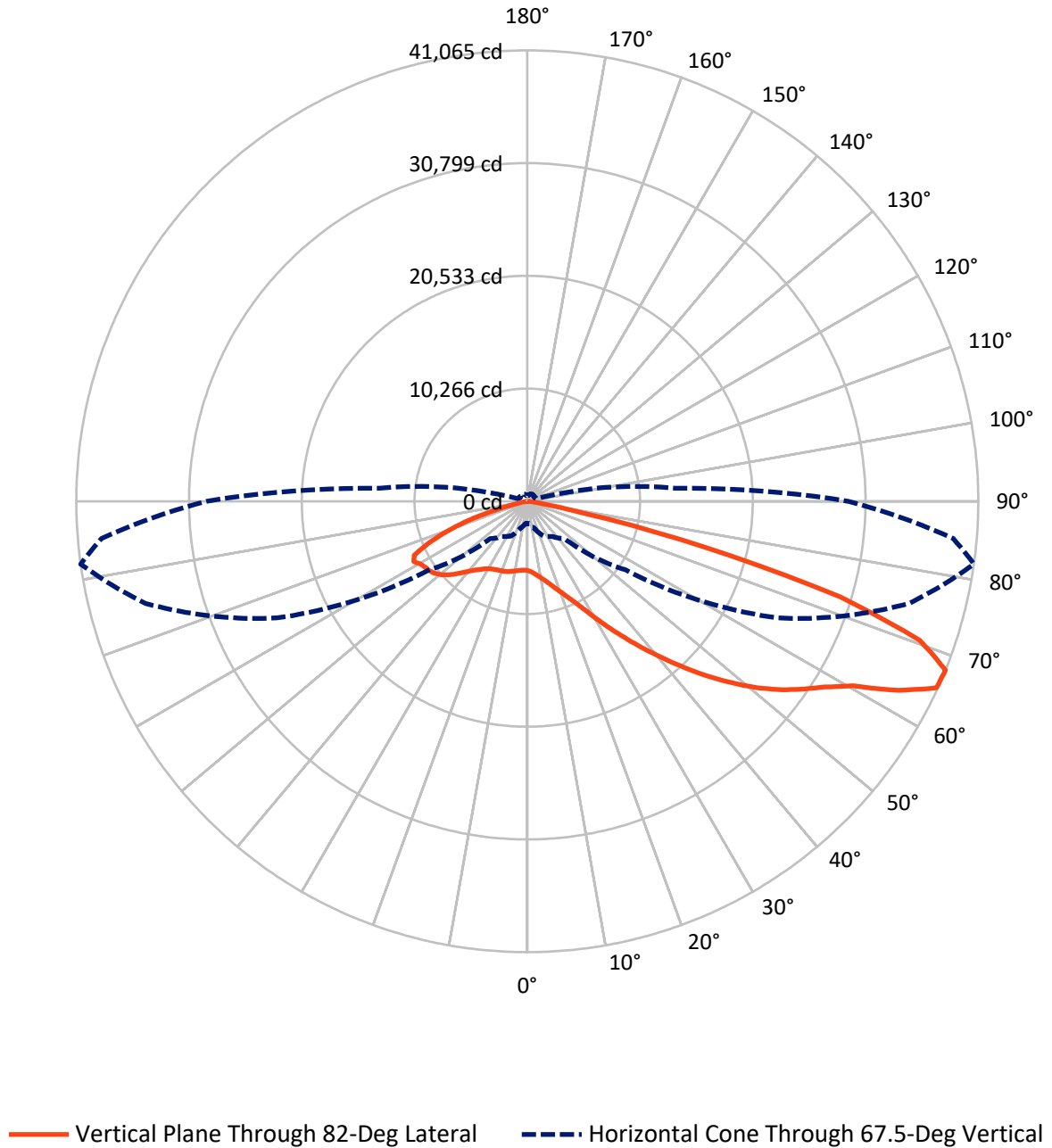
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13.3 fc  
 Type II - Medium - N/A

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### Luminous Intensity Polar Plot



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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	6893.3	0.0	6893.3
	% Fixture	18.1	0.0	18.1
<b>Street Side</b>	Lumens	31161.7	0.0	31161.7
	% Fixture	81.9	0.0	81.9
<b>Total</b>	Lumens	38055.0	0.0	38055.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	561.7	1.5
10°-20°	1459.6	3.8
20°-30°	2337.8	6.1
30°-40°	4133.9	10.9
40°-50°	7243.0	19.0
50°-60°	9660.1	25.4
60°-70°	8993.1	23.6
70°-80°	3451.5	9.1
80°-90°	214.4	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°	38055.0	100.0
0°-180°	38055.0	100.0

**Coefficient of Utilization**



REPORT NUMBER: P88526

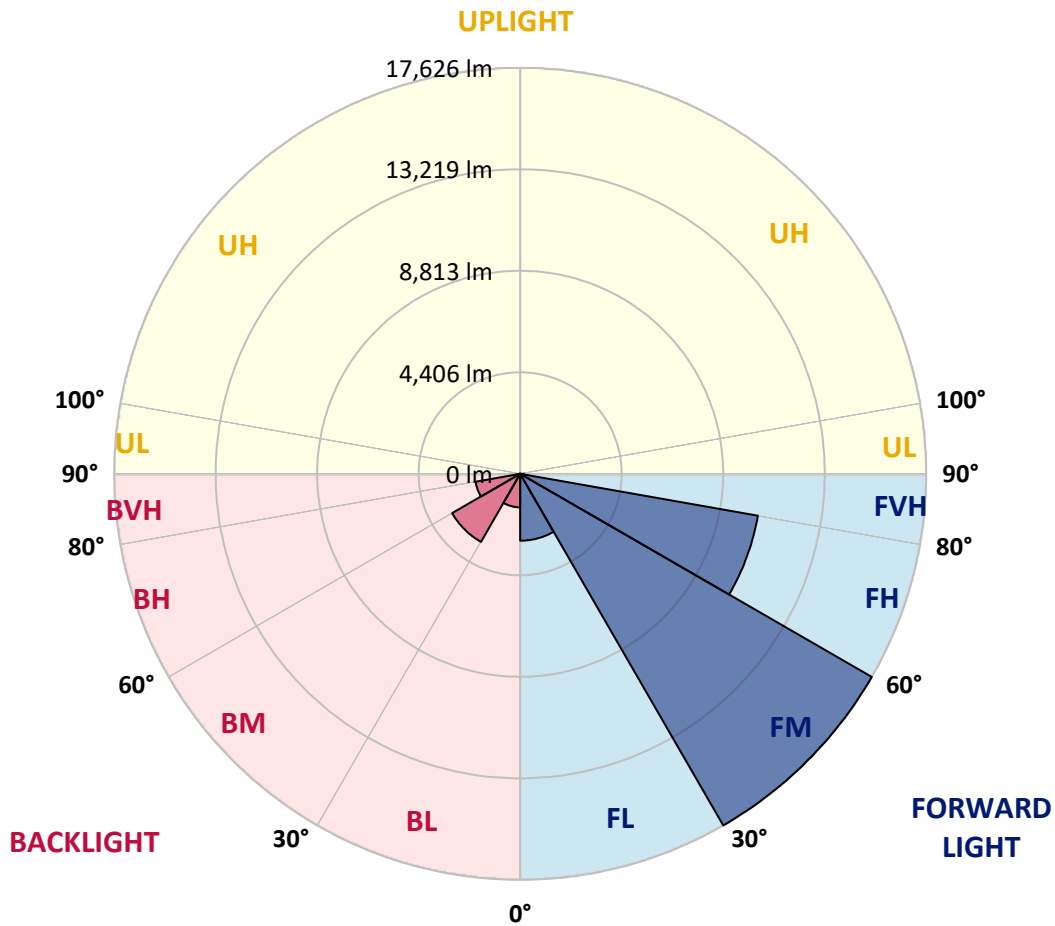
CATALOG NUMBER: NAV-SB6D-835-U-T2-HSS

**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2903.2	7.6			
FM (30°-60°)	17625.5	46.3			
FH (60°-80°)	10477.1	27.5			G4/12000
FVH (80°-90°)	155.9	0.4			G2/225
BL (0°-30°)	1455.9	3.8	B3/2500		
BM (30°-60°)	3411.5	9.0	B3/5000		
BH (60°-80°)	1967.5	5.2	B3/2500		G3/2500
BVH (80°-90°)	58.5	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G4**

Type II Medium



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	82°	85°
0°	6304.4	6304.4	6304.4	6304.4	6304.4	6304.4	6304.4	6304.4	6304.4	6304.4	6304.4
2.5°	6663.3	6701.7	6679.8	6668.8	6649.6	6622.2	6600.3	6531.8	6460.6	6414.0	6397.6
5°	6797.6	6836.0	6833.2	6844.2	6857.9	6866.1	6860.6	6783.9	6682.5	6603.1	6556.5
7.5°	6682.5	6726.4	6762.0	6816.8	6912.7	7014.1	7063.4	7046.9	6942.8	6833.2	6775.7
10°	6356.5	6403.1	6488.0	6616.8	6819.5	7038.7	7222.3	7307.2	7241.5	7120.9	7041.4
12.5°	5759.2	5805.8	5972.9	6252.4	6592.1	6973.0	7323.7	7551.1	7567.5	7446.9	7353.8
15°	5087.9	5134.5	5312.6	5663.3	6181.1	6792.1	7378.5	7808.6	7953.8	7849.7	7737.4
17.5°	4671.5	4712.6	4846.8	5129.0	5668.8	6430.5	7359.3	8082.6	8414.1	8331.9	8197.7
20°	4545.4	4581.1	4644.1	4841.3	5290.7	6055.1	7233.2	8340.1	8910.0	8863.5	8712.8
22.5°	4679.7	4712.6	4731.7	4819.4	5101.6	5808.5	7074.3	8603.2	9485.4	9490.9	9307.3
25°	4989.3	5022.2	5000.3	5055.0	5178.3	5731.8	7014.1	8912.8	10208.7	10269.0	10060.8
27.5°	5498.9	5501.6	5449.6	5446.8	5466.0	5846.9	7077.1	9244.3	11121.1	11233.4	10975.9
30°	6520.9	6479.8	6279.8	6063.3	5964.7	6192.1	7252.4	9636.1	12197.9	12397.9	12074.6
32.5°	8096.3	8036.0	7668.9	7151.0	6630.5	6748.3	7567.5	10082.7	13370.5	13732.2	13337.7
35°	9806.0	9789.5	9406.0	8636.0	7726.4	7540.1	8079.9	10669.0	14650.0	15225.4	14756.9
37.5°	11395.1	11386.9	11167.7	10260.8	9153.9	8644.3	8901.8	11436.2	16020.0	16852.9	16299.4
40°	12847.2	12871.9	12652.7	11841.7	10726.6	10060.8	10019.7	12384.2	17543.3	18625.6	17968.0
42.5°	14102.1	14129.5	13907.5	13307.5	12280.1	11628.0	11392.4	13545.9	19031.1	20529.8	19751.7
45°	14954.2	15124.0	15091.2	14611.7	13874.7	13197.9	13041.7	15003.5	20727.1	22549.1	21636.7
47.5°	15195.3	15351.5	15598.0	15663.8	15214.5	14548.7	14735.0	16759.7	22442.2	24571.1	23532.7
50°	14600.7	14745.9	15258.3	15940.5	16252.9	16047.4	16381.6	18642.0	24198.5	26587.6	25393.1
52.5°	13428.1	13576.0	14222.6	15302.1	16576.2	17222.8	18033.8	20496.9	25899.9	28497.3	27154.8
55°	11732.1	11888.3	12718.4	13940.4	15959.7	17707.7	19411.9	22349.1	27458.9	30215.2	28743.9
57.5°	9425.1	9540.2	10403.3	12112.9	14408.9	17225.5	20428.4	24371.1	28927.5	31903.0	30319.3
60°	6142.8	6244.1	7246.9	9153.9	11838.9	15614.5	20631.2	26626.0	30878.3	34097.6	32442.7
62.5°	4085.1	4153.6	4748.2	6148.3	8337.4	12521.2	19444.8	28426.1	33738.7	37917.0	36084.0
65°	2802.9	2871.4	3465.9	4441.3	5386.6	8282.6	16033.7	28187.7	36330.6	40950.0	38782.8
67.5°	2000.1	2057.6	2561.8	3482.4	3898.8	4811.2	10869.0	25141.0	35958.0	41065.1	38928.0
70°	1432.9	1465.8	1882.3	2712.5	3098.8	2890.6	6044.1	19228.4	31483.8	37919.7	35963.4
72.5°	1002.8	1013.7	1306.9	2065.9	2496.0	2109.7	2876.9	12819.8	23812.2	29763.1	27880.8
75°	679.5	693.2	879.5	1515.1	2002.8	1611.0	1523.4	6874.3	13978.8	16474.8	14767.9
77.5°	416.5	421.9	567.2	1035.7	1498.7	1227.5	980.9	2912.5	5408.5	5309.9	4526.3
80°	235.6	235.6	361.7	643.9	1022.0	791.8	687.7	1238.4	1712.4	1504.2	1326.1
82.5°	131.5	134.3	263.0	400.0	676.7	468.5	378.1	572.6	739.8	654.8	569.9
85°	54.8	60.3	161.7	189.1	323.3	232.9	153.4	241.1	274.0	243.8	178.1
87.5°	5.5	8.2	49.3	35.6	38.4	46.6	21.9	46.6	38.4	38.4	27.4
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°	6304.4	6304.4	6304.4	6304.4	6304.4	6304.4	6304.4	6304.4	6304.4	6304.4	6304.4
2.5°	6345.5	6304.4	6200.3	6079.8	5920.8	5844.1	5740.0	5668.8	5608.5	5614.0	5559.2
5°	6468.8	6364.7	6131.8	5841.4	5479.7	5222.2	4948.2	4759.1	4605.7	4572.8	4498.9
7.5°	6638.7	6474.3	6066.1	5542.7	4931.8	4468.7	4055.0	3789.2	3600.2	3539.9	3479.6
10°	6857.9	6619.5	5981.1	5167.4	4287.9	3698.8	3255.0	3046.7	2918.0	2874.1	2841.2
12.5°	7112.7	6786.6	5868.8	4709.8	3624.8	3057.7	2775.5	2671.4	2630.3	2616.6	2608.3
15°	7433.2	6994.9	5698.9	4167.3	3063.2	2665.9	2545.3	2531.6	2537.1	2531.6	2528.9
17.5°	7814.1	7222.3	5422.2	3608.4	2685.1	2465.9	2422.0	2433.0	2446.7	2444.0	2438.5
20°	8230.5	7446.9	5068.7	3112.5	2427.5	2323.4	2298.7	2309.7	2320.7	2315.2	2312.4
22.5°	8704.5	7688.1	4676.9	2726.2	2254.9	2191.9	2164.5	2167.2	2167.2	2156.3	2150.8
25°	9271.7	7953.8	4266.0	2452.2	2123.4	2074.1	2041.2	2030.2	2013.8	1980.9	1975.4
27.5°	9948.4	8236.0	3871.4	2260.4	2019.3	1972.7	1934.3	1906.9	1865.8	1811.0	1805.6
30°	10710.1	8578.5	3537.2	2139.8	1937.1	1890.5	1846.7	1805.6	1745.3	1676.8	1671.3
32.5°	11606.1	8945.7	3293.3	2060.4	1863.1	1813.8	1761.7	1712.4	1646.7	1578.2	1580.9
35°	12674.6	9389.5	3150.8	2005.6	1805.6	1739.8	1682.3	1627.5	1578.2	1517.9	1512.4
37.5°	13833.6	9860.8	3107.0	1978.2	1767.2	1665.8	1600.1	1561.7	1556.2	1520.6	1517.9
40°	15102.1	10419.7	3139.9	1961.7	1726.1	1594.6	1523.4	1515.1	1528.8	1465.8	1468.6
42.5°	16444.7	11082.7	3194.7	1942.6	1668.6	1523.4	1454.9	1454.9	1443.9	1356.2	1356.2
45°	17896.8	11847.2	3249.5	1896.0	1600.1	1452.1	1400.1	1380.9	1334.3	1249.4	1246.6
47.5°	19359.9	12625.3	3290.6	1811.0	1517.9	1391.9	1345.3	1301.4	1232.9	1156.2	1153.5
50°	20749.0	13324.0	3246.7	1685.0	1424.7	1334.3	1285.0	1224.7	1150.7	1098.7	1090.5
52.5°	21990.1	13929.5	3060.4	1537.1	1326.1	1274.0	1230.2	1167.2	1106.9	1052.1	1046.6
55°	23069.6	14419.9	2731.6	1397.3	1238.4	1222.0	1178.1	1098.7	1016.5	969.9	964.4
57.5°	24105.3	14792.5	2320.7	1282.3	1159.0	1164.4	1098.7	1027.4	950.7	901.4	895.9
60°	25483.5	15291.2	1904.2	1175.4	1074.0	1090.5	1019.2	967.2	871.3	808.3	800.0
62.5°	27686.3	16066.6	1512.4	1043.9	975.4	980.9	950.7	887.7	772.6	698.7	693.2
65°	29434.4	15781.6	1191.8	901.4	863.1	871.3	871.3	802.8	679.5	594.6	586.3
67.5°	29237.1	13513.0	950.7	761.7	756.2	761.7	780.9	723.3	602.8	534.3	523.3
70°	26932.9	10748.5	761.7	632.9	657.6	643.9	698.7	660.3	542.5	474.0	465.8
72.5°	21976.4	7742.9	580.9	523.3	504.1	526.1	630.2	594.6	452.1	375.4	367.1
75°	12841.7	4131.7	432.9	413.7	364.4	438.4	558.9	506.9	345.2	276.7	268.5
77.5°	4181.0	1441.2	317.8	304.1	271.2	353.4	476.7	427.4	282.2	219.2	211.0
80°	1120.6	435.6	216.4	200.0	175.4	263.0	378.1	339.7	202.7	142.5	139.7
82.5°	449.3	183.6	126.0	112.3	95.9	180.8	298.6	274.0	150.7	90.4	90.4
85°	145.2	60.3	46.6	35.6	43.8	112.3	178.1	186.3	106.9	46.6	35.6
87.5°	19.2	8.2	8.2	11.0	8.2	19.2	54.8	52.1	30.1	5.5	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)